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RESEARCH MEMORANDUM

AERODYNAMIC LOAD DISTRIBUTION ON A 45° SWEPTBACK
WING WITH LEADING-EDGE CHORD-EXTENSIONS AT
TRANSONIC SPEEDS, INCLUDING EFFECTS OF
A SPOILER-SLOT-DEFLECTOR AILERON

By James W. Schmeer, Charles F. Whitcomb,
and F. E. West, Jr.

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SUMMARY

An investigation was conducted in the Langley 16-foot transonic tunnel to determine the aerodynamic loading characteristics of a 45° sweptback wing with leading-edge chord-extensions, including the effects of a spoiler-slot-deflector aileron. The chord-extensions extended over the outboard 35 percent of the wing semispan and projected forward 15 percent of the local wing chord. The spoiler-slot-deflector aileron was located in the vicinity of the 70-percent wing chord line and extended outboard to 87 percent of the wing semispan. The wing had an aspect ratio of 4, taper ratio of 0.60, and NACA 65A006 airfoil sections parallel to the plane of symmetry. Static pressures were measured on the wing, chord-extensions, and the spoiler-slot-deflector aileron at several spanwise stations for Mach numbers from 0.60 to 1.03 through an angle-of-attack range of about 0° to 21° .

The results indicate that the addition of the chord-extensions to the basic wing increased the wing-panel normal loads for angles of attack above 8° or 10° , depending on Mach number; this increase occurred primarily on the outboard sections of the wing and resulted in an outboard shift in panel center of pressure. At Mach numbers above 0.60, the maximum section normal loads on the chord-extension occurred near the outboard section at low angles of attack and shifted to the inboard end with increasing angle; the chordwise centers of pressure were generally located between 0.5 and 0.6 of the extension's local chord forward of the basic-wing leading edge and shifted toward the midchord position with increasing angle of attack. The spoiler-slot-deflector aileron decreased the wing-panel normal loads at all angles of attack and Mach numbers; however, at moderately high angles of attack in the Mach number range of about 0.60 to 0.98, the control increased the load on the outboard sections.

INTRODUCTION

Swept-wing configurations designed for transonic and supersonic flight often have undesirable longitudinal stability characteristics at subsonic and transonic speeds. Outboard leading-edge chord-extensions are among the several types of devices which are effective in alleviating these undesirable characteristics. Their effectiveness has been shown in a large number of force and moment investigations. (For example, see refs. 1 to 3.) Also, the effects on lateral control effectiveness of leading-edge chord-extensions and of chord-extensions combined with leading-edge flaps have been shown in reference 4 and references 5 and 6, respectively. There is, however, a lack of pressure data for configurations equipped with chord-extensions. A few results showing the effect of chord-extensions on wing chordwise pressure distributions are available in reference 7.

An investigation has, therefore, been made in the Langley 16-foot transonic tunnel to supply pressure data for a 45° swept-wing—body combination with chord-extensions at Mach numbers from 0.60 to 1.03 and for angles of attack up to 21° . The outboard chord-extensions extended forward 15 percent of the local wing chord. They were investigated on the model with and without a 73-percent-semispan spoiler-slot-deflector aileron.

This paper compares the wing normal-force characteristics, chordwise pressure and span-load distributions, and centers of load for the basic model and the chord-extension configuration with and without the spoiler-slot-deflector aileron. Tabulated pressure coefficients for the two chord-extension configurations, as well as chord-extension span-load distributions and centers of load, are also presented.

Results for the basic configuration are also available in reference 8, and results for the spoiler-slot-deflector aileron configuration without chord-extensions are presented in references 8 and 9. Spoiler and deflector loads obtained on the chord-extension configuration having the spoiler-slot-deflector aileron are available in reference 8. The six-component force balance results obtained simultaneously with the pressure results of this paper and reference 8 are presented in reference 10.

SYMBOLS

All chords are parallel to the vertical plane of symmetry. Wing coefficients include contribution of leading-edge chord-extensions and spoiler-slot-deflector aileron.

b	wing span
c	local basic-wing chord
\bar{c}	average basic-wing chord
c'	mean aerodynamic chord of basic wing
c_e	local chord-extension chord
\bar{c}_e	average chord-extension chord
c_n	wing section normal-force coefficient, $\frac{\text{Wing section normal force}}{qc}$
$c_{n,e}$	chord-extension section normal-force coefficient, $\frac{\text{Chord-extension section normal force}}{qc_e}$
C_N	wing-panel normal-force coefficient, $\int_{0.135}^{1.0} c_n \frac{c}{\bar{c}} d\left(\frac{y}{b/2}\right)$
C_p	pressure coefficient, $\frac{p_l - p}{q}$
$C_{p,cr}$	critical pressure coefficient where local velocities reach speed of sound
M	free-stream Mach number
p	free-stream static pressure
p_l	local static pressure
q	free-stream dynamic pressure
x	distance from wing leading edge along c, positive downstream
x_{cp}	longitudinal location of wing or chord-extension section center of load measured from leading edge, positive downstream

X_{cp}	longitudinal location of wing-panel center of load measured from leading edge along c' , positive downstream
y	lateral distance from plane of symmetry
Y_{cp}	lateral location of wing-panel center of load measured from plane of symmetry
α	angle of attack

APPARATUS

Tunnel and Model

The investigation was conducted in the Langley 16-foot transonic tunnel, the air-flow and power characteristics of which are presented in reference 11.

Figure 1 presents the geometric details of the sting-supported basic model. The steel wing had NACA 65A006 airfoil sections parallel to the plane of symmetry, quarter-chord-line sweep of 45° , taper ratio of 0.60, and aspect ratio of 4.0. It was constructed to have no incidence, dihedral, or twist and was mounted in a midwing position on the fuselage. The steel fuselage was a body of revolution which had a fineness ratio of 10. (See ref. 12 for body ordinates.) The quarter-chord point of the wing mean aerodynamic chord was located at the longitudinal position of the maximum fuselage diameter.

Chord-Extension and Spoiler-Slot-Deflector

Aileron Configurations

The chord-extensions used for these tests (see fig. 1) are similar to those discussed in references 2 and 7. They were made of steel and extended forward 15 percent of the local wing chord from the 65-percent-semispan station to the wing tip. The extensions had the same section ordinates back to their maximum thickness as did the basic airfoil sections at corresponding spanwise stations. Between the maximum thickness of the chord-extensions and the maximum thickness of the wing (at approximately the 40-percent-chord point), the airfoil contour paralleled the wing chord line.

Cross-sectional geometric details of the spoiler-slot-deflector aileron are also shown in figure 1. The spoiler and deflector were made of steel

and mounted on the left wing. The spoiler, which would extend over 12 percent of the wing chord in the undeflected position, was projected 7.8 percent of the wing local chord above the wing upper surface and extended along the 68.1-percent wing chord line (fig. 1). The inboard end extended to the fuselage where it was sealed at the juncture, and the outboard end was at the 87-percent-semispan station. The wing slot, which was 3.8 percent of the local wing chord, extended from the 15- to the 87-percent-semispan station. Ribs, which were parallel to the plane of symmetry, were located in the wing slot at the 20, 30-, 39-, 48-, 57-, 66-, 75-, and 83-percent-semispan stations. These ribs had a height of 2.4 percent of the local wing chord and a width of 0.25 inch. Braces for the spoiler were mounted on top of these ribs. (See fig. 1.) The deflector which would extend over 8.6 percent of the wing chord in the undeflected position was projected 5.5 percent of the local wing chord below the wing lower surface. It extended along the 73.8-percent wing chord line from the wing-fuselage juncture, where it was sealed, to the 87-percent-wing-semispan station. It was fastened to the wing by seven braces. (See fig. 1.)

Pressure Instrumentation

Static-pressure orifices were distributed over the upper and lower surfaces of the left wing, the left wing chord-extension, and the front and rear surfaces of the spoiler and deflector. Those on the wing were distributed along the wing chords at seven spanwise stations: 13.5-, 25-, 40-, 55-, 70-, 85-, and 95-percent-semispan. The orifices at the wing-fuselage juncture (or average 13.5-percent-semispan station) were actually located on the fuselage 0.1 inch from the wing surface. The orifices on the chord-extension were in line with the basic-wing orifices at the three outboard orifice stations. The orifices on the spoiler and deflector were located at six of the seven spanwise orifice stations. The control did not extend to the 95-percent-semispan station. Eight orifices and six orifices were located on the spoiler and deflector, respectively, at each spanwise orifice station. (See fig. 1.)

The pressures were transmitted by means of small tubing through the support system of the model to mercury manometer boards and were recorded photographically.

TESTS

Data for this investigation were obtained for three configurations: the basic model, the basic model with the leading-edge chord-extensions, and the basic model with the chord-extensions and a spoiler-slot-deflector aileron. The configurations were generally tested through an angle-of-attack range from 0° to approximately 21° for Mach numbers from 0.60 to

0.94 and up to angles of 19.4° , 15.4° , and 13.2° for Mach numbers of 0.98, 1.00, and 1.03, respectively. These maximum angles were not attained for all of the configurations because of model stress or tunnel power limitations. The variation of Reynolds number, based on mean aerodynamic chord, with Mach number is presented in figure 2. All configurations were tested with free transition.

DATA REDUCTION

The pressure data were reduced by the methods described in reference 12. Sting interference effects on the flow over the relatively remote wing and wing devices or controls are believed to be negligible. The aeroelastic effects were not evaluated but are believed to be small for the steel wing of this investigation. Also, tunnel-wall effects are small for the present test Mach number range (see ref. 13), and, therefore, no corrections have been applied to the data.

Angle-of-attack accuracy is estimated to be within $\pm 0.1^\circ$. The accuracy of the free-stream Mach number is estimated to be within ± 0.005 .

PRESENTATION OF RESULTS

Wing static-pressure coefficients for the leading-edge chord-extension configuration without and with the spoiler-slot-deflector aileron are given in tables I and II, respectively. Pressure distributions for the spoiler-slot-deflector aileron components are available in reference 8, and wing pressure coefficients for essentially the same basic model are tabulated in reference 12.

Wing chordwise pressure distributions for the model with chord-extensions are compared with those for the basic model in figure 3 and with those for the model with chord-extensions and a spoiler-slot-deflector aileron in figure 4. For this latter configuration the compression regions on the lower surface, which are due to deflector projection, are shown as terminating at about $0.70c$; whereas, those on the upper surface, which are due to spoiler projection, are shown as terminating at about $0.74c$. Pressure coefficients obtained on the front face of the spoiler and the rear face of the deflector have been included in the distributions of figure 4.

Wing spanwise load distributions and wing section center-of-pressure locations are presented in figures 5 and 6, respectively, for the basic model and the chord-extension configuration with and without the spoiler-slot-deflector aileron. For these three configurations, wing-panel normal-force characteristics, lateral center-of-pressure locations, and longitudinal center-of-pressure locations are presented in figures 7 to 9,

respectively. Spanwise load distributions and section center-of-pressure locations for the chord-extensions are shown in figures 10 and 11, respectively, for the chord-extension configuration with and without the spoiler-slot-deflector aileron.

In figures which show comparisons at one angle of attack, the angle given is an average for the compared configurations. The maximum deviation from this angle is $\pm 0.1^\circ$.

DISCUSSION

A fairly detailed analysis of the effects of leading-edge chord-extensions on the flow over the wing of the present investigation is available in reference 7. The effects of the spoiler-slot-deflector aileron on the flow over the basic wing of the present investigation have been discussed in reference 8. Although the present paper includes chord-extension loads which were not obtained for the investigation discussed in reference 7, the analysis of reference 7 seems to be fairly complete without the benefit of this information on loads. Results in this paper are, therefore, presented primarily for information on loads rather than for information on flow phenomena.

Wing Section Loading

Effect of chord-extensions. - In the subsonic and transonic speed ranges many investigations have shown that at moderate angles of attack swept-wing configurations often encounter abrupt positive increases in pitching moment with increasing angle. Chord-extensions are effective in alleviating these abrupt increases because they delay the spread of flow separation over the outboard wing sections to higher angles of attack. (See ref. 7.) This delay in flow separation is shown by the pressure distributions in figure 3; the resulting increase in normal loads over the outboard wing sections at moderate angles of attack is shown in the spanwise load distributions of figure 5. At Mach numbers of 0.60 to 0.90, however, the wing loads at stations inboard of the chord-extensions were reduced at moderate angles of attack due to the addition of the extensions. At higher angles of attack where chord-extensions were unable to prevent flow separation (see fig. 3), the increase in normal loads on the outboard wing sections (see fig. 5) resulted largely from the added wing area provided by the extensions. At low angles of attack the added wing area provided by the extensions caused a redistribution of the chordwise loading over the outboard wing sections, with little change in the magnitude of the load.

Figure 6 shows that the chord-extensions caused a forward shift of the section centers of pressure at the outboard stations. This shift is associated with the effects of added wing area on chordwise load distribution, as well as the effects of the extensions on flow separation.

Effect of spoiler-slot-deflector aileron. - Figure 5 shows, as expected, that the spoiler-slot-deflector aileron was effective in decreasing the section loads and that its effectiveness decreased at the higher angles where, as shown in figure 4, the flow separates on the wing. Adding chord-extensions to the wing would be expected to result in increased spoiler-slot-deflector effectiveness at the angles of attack where the chord-extensions alleviated wing flow separation. Reference 10, however, shows that the expected increase was small. Reasons for the small increase may be found by comparing the effect of the spoiler-slot-deflector on the pressures of the chord-extension configuration (fig. 4) with the effect of the same spoiler control on the basic-wing pressures (ref. 8). This comparison would show favorable pressure changes (increased effectiveness) on the outboard stations for Mach numbers up to 0.90 for the chord-extension configuration. Unfortunately, for the same test conditions, unfavorable pressure changes occurred at the inboard stations where the chord-extensions caused a reduction in wing loading (fig. 3). At Mach numbers above 0.90, changes in wing flow separation due to the chord-extensions were too small to expect any noteworthy changes in control effectiveness.

Figure 5 also shows conditions, at Mach numbers up to about 0.94, where the addition of the spoiler-slot-deflector aileron to the model actually caused increases in loading at the two outboard wing stations. These conditions occurred initially at the angles of attack of approximately 17° where the chord-extensions were unable to prevent flow separation. The adverse effect on rolling moments due to this outboard loading increase is shown in reference 10. A similar effect occurred with the spoiler-slot-deflector aileron added to the wing without the chord-extension but at a lower angle and to a lesser degree. (See ref. 8.) Although reasons for these loading increases are not known, the relative projection of the spoiler to the boundary-layer thickness must certainly be a factor.

As shown in figure 6, adding the spoiler-slot-deflector aileron to the chord-extension configuration generally caused a forward shift in section center of pressure over the entire wing-panel span at lifting conditions. This shift occurred primarily because the addition of the spoiler-slot-deflector greatly reduced the wing trailing-edge loading. (See fig. 4.)

Wing-Panel Loading

The integrated results of the wing-panel loads, including the effects of chord-extensions with and without the spoiler-slot-deflector aileron, are presented in figure 7. As was indicated in the previous discussion concerning chordwise pressure distributions and spanwise normal-load distributions, the effect of the chord-extensions was to increase wing-panel normal-force coefficients in the angle-of-attack range above 8° or 10° , depending on Mach number, and the effect of the spoiler-slot-deflector aileron was to decrease these coefficients at all angles of attack.

The effects of the chord-extensions and the spoiler-slot-deflector aileron on the lateral location of the wing-panel center of pressure (fig. 8) follow the trends of their effects on the normal-load distributions previously discussed. At angles of attack greater than about 8° , the chord-extension caused an outboard shift in center-of-pressure location; at angles of attack above about 4° and Mach numbers up to about 0.94, the spoiler control generally caused further outboard shifts in center of pressure.

The effects of the chord-extension on the longitudinal location of the wing-panel center of pressure (fig. 9) do not follow the trends indicated by the section center-of-pressure locations (fig. 6). Although adding chord-extensions caused the section centers of pressure to shift forward on the outboard sections of the wing at lifting conditions, the chord-extensions also caused an outboard shift in panel loads (see fig. 8), which on a swept wing tends to move the wing-panel center of pressure rearward. The net effect on the longitudinal location of center of pressure is generally small throughout the angle-of-attack range. Adding the spoiler-slot-deflector aileron to the chord-extension configuration, however, did cause a forward shift in the wing-panel center of pressure (fig. 9), since it caused large forward shifts of the section centers of pressure across the entire wing semispan (see fig. 6), which were only partially balanced by the outboard shift in wing-panel center of pressure (fig. 8).

Chord-Extension Loading

Figure 10(a) shows that at a Mach number of 0.60 the maximum chord-extension load without the spoiler-slot-deflector aileron on the model occurred on the inboard sections throughout the angle-of-attack range. At Mach numbers of 0.85 to 1.03 (figs. 10(b) to 10(g)), the maximum load occurred outboard of the midspan sections at angles of attack up to approximately 10° ; at the higher angles, the maximum load was again located on the inboard sections.

Figure 10(a) also indicates that at a Mach number of 0.60, the spoiler-slot-deflector aileron decreased the section loads on the

chord-extension at lifting conditions except for a slight increase near the tip section at high angles of attack. With increasing Mach number (to about $M = 0.94$), this increase in load became larger and spread to the inboard end of the extension. (See plots for $\alpha \approx 17^\circ$ at $M = 0.90$ and 0.94 , figs. 10(c) and 10(d).) For the reduced angle-of-attack range at the higher Mach numbers (figs. 10(e) to 10(g)), the spoiler-slot-deflector generally decreased the load on the outboard sections and increased the load on the inboard sections.

In general, as shown in figure 11, the centers of pressure on the leading-edge chord-extension lie between 0.5 and 0.6 of the extension's local chord forward of the basic-wing leading edge. With increasing angle of attack at all Mach numbers, the section centers of pressure shifted toward the midchord position. This rearward shift is due to separation, which causes the upper surface pressures to level out to a uniform value, and, as indicated in figure 3, first occurs on the outboard end and moves inboard. Adding the spoiler-slot-deflector had the largest effects at angles of attack up to about 4° ; at higher angles, the effect was generally very small.

CONCLUSIONS

A transonic investigation of the aerodynamic load distribution on a 45° sweptback wing with leading-edge chord-extensions, including the effects of a spoiler-slot-deflector aileron, has led to the following conclusions:

1. Addition of chord-extensions increased the wing-panel normal loads for angles of attack above 8° or 10° , depending on Mach number. This increase occurred primarily on the outboard section of the wing. At a Mach number of 0.90 and below, some decrease in load occurred on the wing sections inboard of the chord-extensions.
2. Addition of the spoiler-slot-deflector aileron to the chord-extension configuration decreased wing-panel normal load for all angles of attack and Mach numbers. However, at moderately high angles in the Mach number range from 0.60 to about 0.98, the addition resulted in an increase in load on the wing sections near the tip.
3. Although chord-extensions caused large forward shifts in the chordwise centers of pressure of the outboard sections at all Mach numbers, they also caused an outboard shift of the wing-panel loads at the higher angles of attack, which on a swept wing opposes the forward movement of panel center of pressure. The net effect on the longitudinal

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location of the panel center of pressure was generally small throughout the angle-of-attack range.

4. Addition of the spoiler-slot-deflector aileron to the chord-extension configuration generally caused large forward shifts of the wing section centers of pressure across the entire wing semispan at angles of attack above about 8° ; its effect on the panel center of pressure consisted of a forward and small outboard shift in the same angle range.

5. At a Mach number of 0.60, the maximum section normal loads on the chord-extension occurred on the inboard end. At higher Mach numbers, the maximum section loads generally occurred near the outboard section at low angles of attack and shifted to the inboard end with increasing angle.

6. In general, the chordwise centers of pressure on the chord-extension were located between 0.5 and 0.6 of the extension's local chord forward of the basic-wing leading edge. With increasing angle of attack, the centers of pressure shifted toward the midchord position of the extension.

Langley Aeronautical Laboratory,
National Advisory Committee for Aeronautics,
Langley Field, Va., November 15, 1957.

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TABLE I - WING WITH LEADING-EDGE CHORD-EXTENSION

Percent chord		Pressure coefficient													
		0.135b/2			0.25b/2			0.40b/2			0.55b/2				
		M = 0.60	a = 0.21°	M = 0.60	a = 0.21°	M = 0.60	a = 0.21°	M = 0.60	a = 0.21°	M = 0.60	a = 0.21°	M = 0.60	a = 0.21°		
Upper surface	-15.0	+209	.441	+473	+480	+146	+153	+172	+195	+056	+168	+489	+161	-388	-325
	-13.8	+213	.094	+133	+115	+126	+172	+197	+208	+098	+1204	+1204	-1534	-1391	
	-12.5	+209	.129	+135	+148	+123	+138	+205	+208	+104	+1204	+739	-823	-811	
	-10.0	+109	.136	+135	+135	+122	+122	+177	+156	+093	+1204	+519	-520	-449	
	-7.5	+033	.123	+138	+137	+138	+148	+149	+156	+093	+1204	+519	-520	-449	
	-5.0	+067	.136	+160	+141	+177	+167	+154	+280	+391	+443	+491	+365	-328	-249
	0.0	+213	.094	+133	+115	+126	+172	+197	+208	+098	+1204	+1204	-1534	-1391	
	1.2	+213	.094	+133	+115	+126	+172	+197	+208	+098	+1204	+1204	-1534	-1391	
	2.4	+009	.129	+135	+148	+123	+138	+205	+208	+104	+1204	+739	-823	-811	
	5.0	+033	.123	+138	+137	+138	+148	+149	+156	+093	+1204	+519	-520	-449	
	7.5	+067	.136	+160	+141	+177	+167	+154	+280	+391	+443	+491	+365	-328	-249
	10.0	+092	.151	+168	+165	+171	+160	+144	+276	+368	+395	+442	+339	-293	-222
	12.5	+102	.164	+190	+165	+177	+146	+152	+272	+348	+377	+391	+318	-248	-205
	15.0	+102	.176	+188	+173	+177	+146	+152	+272	+348	+377	+391	+318	-248	-205
Lower surface	24.5	+146	.131	+141	+148	+146	+146	+146	+272	+348	+377	+391	+318	-248	-205
	27.0	+146	.131	+170	+182	+143	+121	+112	+243	+311	+330	+340	+239	-198	-155
	30.5	+146	.183	+183	+134	+123	+102	+082	+275	+308	+320	+314	+219	-187	-137
	33.0	+143	.186	+186	+182	+132	+120	+073	+260	+302	+309	+294	+201	-174	-130
	35.5	+143	.186	+186	+182	+132	+120	+073	+260	+302	+309	+294	+201	-174	-130
	39.5	+145	.186	+186	+182	+132	+120	+073	+260	+302	+309	+294	+201	-174	-130
	44.5	+165	.186	+186	+179	+144	+119	+102	+275	+293	+292	+268	+206	-142	-148
	49.5	+176	.187	+188	+173	+144	+115	+102	+275	+293	+292	+268	+206	-159	-159
	54.5	+172	.187	+188	+173	+144	+115	+102	+275	+293	+292	+268	+206	-159	-159
	59.5	+180	.179	+161	+146	+134	+107	+088	+263	+223	+193	+161	+129	-122	-122
	64.5	+186	.164	+140	+120	+106	+088	+072	+254	+230	+196	+159	+110	-104	-104
	69.6	+154	.054	.054	.054	.054	.054	.054	+105	+019	+005	+022	+002	+017	+022
	74.6	+164	.140	.152	.090	.077	.071	.044	+222	+185	+146	+104	+095	+067	+078
	79.5	+164	.142	.081	.056	.040	.030	.020	+222	+185	+146	+104	+095	+067	+078
	84.6	+134	.099	.050	.037	.023	.000	.002	+177	+103	+064	+042	+028	+007	+038
	89.7	+135	.048	.014	.004	.006	.021	.028	+157	+063	+023	+004	+002	+017	+022
	94.6	+087	.009	.005	.016	.029	.043	.045	+105	+019	+005	+022	+031	+040	+002
Lower surface	-13.8	+013	.045	.039	.010	+013	+013	+008	+308	+385	+390	+438	+396	+403	+381
	-12.5	+036	.055	.064	.057	+113	+096	+121	+244	+220	+242	+280	+077	+080	+032
	-10.0	+013	.069	.086	.081	+013	+013	+013	+203	+173	+181	+216	+020	+020	+010
	-7.5	+036	.055	.064	.057	+113	+096	+121	+244	+220	+242	+280	+077	+080	+032
	0.0	+170	.145	.141	.137	+122	+117	+117	+121	+163	+138	+149	+052	+033	+050
	1.2	+112	.141	.140	.137	+121	+117	+117	+121	+163	+138	+149	+052	+033	+050
	2.4	+365	.105	.139	.155	+122	+117	+117	+122	+163	+138	+149	+052	+033	+050
	5.0	+036	.055	.064	.057	+113	+096	+121	+244	+220	+242	+280	+077	+080	+032
	7.6	+013	.069	.086	.081	+013	+013	+013	+203	+173	+181	+216	+020	+020	+010
	10.1	+037	.076	.086	.099	+122	+117	+117	+121	+163	+138	+149	+052	+033	+050
	12.5	+056	.100	.117	.121	+131	+125	+133	+131	+102	+099	+127	+032	+010	+049
	15.0	+104	.161	.161	.161	+122	+117	+117	+122	+163	+138	+149	+052	+033	+050
	19.6	+104	.161	.161	.161	+122	+117	+117	+122	+163	+138	+149	+052	+033	+050
	24.5	+104	.161	.161	.161	+122	+117	+117	+122	+163	+138	+149	+052	+033	+050
	27.0	+104	.161	.152	.143	+106	+088	+090	+041	+004	+007	+019	+005	+005	+055
	30.5	+111	.161	.159	.155	+136	+103	+099	+023	+023	+011	+006	+038	+031	+070
	33.0	+127	.168	.165	.155	+103	+089	+089	+004	+039	+032	+023	+012	+031	+061
	39.5	+176	.168	.156	.156	+122	+117	+117	+122	+163	+138	+149	+052	+033	+050
	44.5	+176	.168	.156	.156	+122	+117	+117	+122	+163	+138	+149	+052	+033	+050
	49.5	+176	.168	.156	.156	+122	+117	+117	+122	+163	+138	+149	+052	+033	+050
	54.5	+172	.160	.155	.147	+124	+115	+101	+058	+060	+052	+062	+058	+072	+076
	59.5	+160	.140	.145	.136	+111	+096	+091	+052	+052	+068	+052	+058	+064	+075
	64.5	+168	.154	.126	.119	+101	+082	+075	+067	+067	+052	+052	+049	+060	+067
	69.6	+160	.054	.054	.054	+054	+054	+054	+054	+054	+054	+054	+054	+054	+057
	74.6	+160	.118	.092	.077	.057	.053	.042	+058	+058	+038	+030	+025	+038	+038
	79.5	+160	.118	.092	.077	.057	.053	.042	+058	+058	+038	+030	+025	+038	+038
	84.6	+085	.049	.052	.037	.025	.032	.041	+054	+054	+041	+028	+013	+009	+016
	89.7	+117	.066	.043	.031	.007	.003	.004	+050	+050	+025	+011	+016	+001	+006
	94.6	+097	.044	.018	.003	.011	.019	.004	+046	+046	+014	.004	.018	.025	.019
Upper surface	M = 0.60	a = 6.21°	M = 0.60	a = 6.21°	M = 0.60	a = 6.21°	M = 0.60	a = 6.21°	M = 0.60	a = 6.21°	M = 0.60	a = 6.21°	M = 0.60	a = 6.21°	
	-13.8	+170	.145	.141	.137	+122	+117	+117	+122	+163	+138	+149	+052	+033	+050
	-12.5	+112	.141	.140	.137	+121	+117	+117	+122	+163	+138	+149	+052	+033	+050
	-10.0	+365	.105	.139	.155	+122	+117	+117	+122	+163	+138	+149	+052	+033	+050
	-7.5	+39.5	.168	.172	.182	+122	+117	+117	+122	+163	+138	+149	+052	+033	+050
	0.0	+170	.145	.141	.137	+122	+117	+117	+122	+163	+138	+149	+052	+033	+050
	1.2	+112	.141	.140	.137	+121	+117	+117	+122	+163	+138	+149	+052	+033	+050
	2.4	+365	.105	.139	.155	+122	+117	+117	+122	+163	+138	+149	+052	+033	+050
	5.0	+036	.055	.064	.057	+113	+096	+121	+244	+220	+242	+280	+077	+080	+032
	7.6	+013	.069	.086	.081	+013	+013	+013	+203	+173	+181	+216	+020	+020	+010
	10.1	+037	.076	.086	.099	+122	+117	+117	+122	+163	+138	+149	+052	+033	+050
	12.5	+041	.104	.120	.122	+122	+117	+117	+122	+163	+138	+149	+052	+033	+050
	15.0	+339	.168	.174	.182	+122	+117	+117	+122	+163	+138	+149	+052	+033	+050
	19.6	+372	.168	.174	.182	+122	+117	+117	+122	+163	+138	+149	+052	+033	+050
	24.5	+351	.168	.174	.182	+122	+117	+117	+122	+163	+138	+149	+052	+033	+050
	27.0	+351	.168	.174	.182	+122	+117	+117	+122	+163	+138	+149	+052	+033	+050
	30.5	+351	.168	.174	.182	+122	+117	+117	+122	+163	+138	+149	+052	+033	+050
	33.0	+351	.168	.174	.182	+122	+117	+117	+122	+163	+138	+149	+052	+033	+050
	39.5	+329	.171	.176	.182	+122	+117	+117	+122	+163	+138	+149	+052	+033	+050
	44.5	+329	.171	.176	.182	+122	+117	+117	+122	+163	+138	+149	+052	+033	+050
	49.5	+334	.171	.176	.182	+122	+117	+117	+122	+163	+138	+149	+052	+033	+050
	54.5	+334	.171	.176	.182	+122	+117	+117	+122	+163	+138	+149	+052	+033	+050
	59.5	+309	.171	.176	.182	+122</td									

TABLE I. - WING WITH LEADING-EDGE CHORD-EXTENSION - Continued

Percent chord		Pressure coefficient																									
		0.135b/2	0.25b/2	0.40b/2	0.55b/2	0.70b/2	0.85b/2	0.95b/2	0.135b/2	0.25b/2	0.40b/2	0.55b/2	0.70b/2	0.85b/2	0.95b/2												
Upper surface	M = 0.60	M = 0.60												a = 12.19°	M = 0.60												a = 16.1°
-15.0	-0.023	-1.836	-1.305	-1.155	-1.055	-0.924	-0.824	-0.747	-1.477	-1.321	-1.240	-1.189	-1.120	-1.055	-0.985	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
-13.8	-0.762	-1.854	-1.163	-0.921	-0.745	-0.620	-0.520	-0.420	-2.112	-1.201	-1.201	-1.198	-1.198	-1.198	-1.198	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
-12.5	-1.048	-1.892	-1.158	-0.934	-0.762	-0.642	-0.542	-0.442	-2.372	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
-10.0	-1.110	-1.905	-1.151	-0.904	-0.754	-0.654	-0.554	-0.454	-1.939	-1.246	-1.246	-1.246	-1.246	-1.246	-1.246	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
-7.5	-1.110	-1.905	-1.151	-0.904	-0.754	-0.654	-0.554	-0.454	-1.494	-1.281	-1.281	-1.281	-1.281	-1.281	-1.281	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
-5.0	-1.048	-1.934	-1.162	-0.924	-0.762	-0.642	-0.542	-0.442	-1.476	-1.321	-1.240	-1.189	-1.120	-1.055	-0.985	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
-2.5	-0.727	-1.588	-1.209	-0.801	-0.642	-0.542	-0.442	-0.342	-1.305	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
2.5	-0.651	-1.068	-1.157	-0.751	-0.616	-0.516	-0.416	-0.316	-1.476	-1.321	-1.240	-1.189	-1.120	-1.055	-0.985	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
5.0	-0.563	-1.301	-1.069	-0.661	-0.547	-0.447	-0.347	-0.247	-1.305	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
7.5	-0.488	-1.354	-1.005	-0.616	-0.516	-0.416	-0.316	-0.216	-1.305	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
10.0	-0.422	-1.388	-1.066	-0.652	-0.552	-0.452	-0.352	-0.252	-1.305	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
12.5	-0.364	-1.405	-1.066	-0.669	-0.564	-0.464	-0.364	-0.264	-1.305	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
15.0	-0.308	-1.418	-1.066	-0.676	-0.576	-0.476	-0.376	-0.276	-1.305	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
17.5	-0.264	-1.428	-1.066	-0.686	-0.586	-0.486	-0.386	-0.286	-1.305	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
20.0	-0.228	-1.438	-1.066	-0.696	-0.596	-0.496	-0.396	-0.296	-1.305	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
25.0	-0.194	-1.448	-1.066	-0.706	-0.606	-0.506	-0.406	-0.306	-1.305	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
30.0	-0.160	-1.458	-1.066	-0.716	-0.616	-0.516	-0.416	-0.316	-1.305	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
35.0	-0.130	-1.468	-1.066	-0.726	-0.626	-0.526	-0.426	-0.326	-1.305	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
40.0	-0.104	-1.478	-1.066	-0.736	-0.636	-0.536	-0.436	-0.336	-1.305	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
45.0	-0.080	-1.488	-1.066	-0.746	-0.646	-0.546	-0.446	-0.346	-1.305	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
50.0	-0.056	-1.498	-1.066	-0.756	-0.656	-0.556	-0.456	-0.356	-1.305	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
55.0	-0.032	-1.508	-1.066	-0.766	-0.666	-0.566	-0.466	-0.366	-1.305	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
60.0	-0.010	-1.518	-1.066	-0.776	-0.676	-0.576	-0.476	-0.376	-1.305	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
65.0	-0.000	-1.528	-1.066	-0.786	-0.686	-0.586	-0.486	-0.386	-1.305	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
70.0	-0.000	-1.538	-1.066	-0.796	-0.696	-0.596	-0.496	-0.396	-1.305	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
75.0	-0.000	-1.548	-1.066	-0.806	-0.706	-0.606	-0.506	-0.406	-1.305	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
80.0	-0.000	-1.558	-1.066	-0.816	-0.716	-0.616	-0.516	-0.416	-1.305	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
85.0	-0.000	-1.568	-1.066	-0.826	-0.726	-0.626	-0.526	-0.426	-1.305	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
90.0	-0.000	-1.578	-1.066	-0.836	-0.736	-0.636	-0.536	-0.436	-1.305	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
95.0	-0.000	-1.588	-1.066	-0.846	-0.746	-0.646	-0.546	-0.446	-1.305	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
100.0	-0.000	-1.598	-1.066	-0.856	-0.756	-0.656	-0.556	-0.456	-1.305	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
110.0	-0.000	-1.608	-1.066	-0.866	-0.766	-0.666	-0.566	-0.466	-1.305	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
120.0	-0.000	-1.618	-1.066	-0.876	-0.776	-0.676	-0.576	-0.476	-1.305	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
130.0	-0.000	-1.628	-1.066	-0.886	-0.786	-0.686	-0.586	-0.486	-1.305	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
140.0	-0.000	-1.638	-1.066	-0.896	-0.796	-0.696	-0.596	-0.496	-1.305	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
150.0	-0.000	-1.648	-1.066	-0.906	-0.806	-0.706	-0.606	-0.506	-1.305	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
160.0	-0.000	-1.658	-1.066	-0.916	-0.816	-0.716	-0.616	-0.516	-1.305	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
170.0	-0.000	-1.668	-1.066	-0.926	-0.826	-0.726	-0.626	-0.526	-1.305	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
180.0	-0.000	-1.678	-1.066	-0.936	-0.836	-0.736	-0.636	-0.536	-1.305	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
190.0	-0.000	-1.688	-1.066	-0.946	-0.846	-0.746	-0.646	-0.546	-1.305	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
200.0	-0.000	-1.698	-1.066	-0.956	-0.856	-0.756	-0.656	-0.556	-1.305	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
210.0	-0.000	-1.708	-1.066	-0.966	-0.866	-0.766	-0.666	-0.566	-1.305	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
220.0	-0.000	-1.718	-1.066	-0.976	-0.876	-0.776	-0.676	-0.576	-1.305	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
230.0	-0.000	-1.728	-1.066	-0.986	-0.886	-0.786	-0.686	-0.586	-1.305	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
240.0	-0.000	-1.738	-1.066	-0.996	-0.896	-0.796	-0.696	-0.596	-1.305	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
250.0	-0.000	-1.748	-1.066	-1.006	-0.906	-0.806	-0.706	-0.606	-1.305	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
260.0	-0.000	-1.758	-1.066	-1.016	-0.916	-0.816	-0.716	-0.616	-1.305	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
270.0	-0.000	-1.768	-1.066	-1.026	-0.926	-0.826	-0.726	-0.626	-1.305	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
280.0	-0.000	-1.778	-1.066	-1.036	-0.936	-0.836	-0.736	-0.636	-1.305	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098						
290.0	-0.000	-1.788	-1.066	-1.046	-0.946	-0.846	-0.746	-0.646	-1.305	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217	-1.785	-1.624	-1.498	-1.334	-1.224	-1.098</td						

TABLE I - WING WITH LEADING-EDGE CHORD-EXTENSION - Continued

Percent chord		Pressure coefficient											
		0.135b/2	0.25b/2	0.40b/2	0.55b/2	0.70b/2	0.85b/2	0.95b/2	M = 0.85	a = 4.17°	M = 0.85	a = 6.21°	M = 0.85
		M = 0.85			a = 4.17°			M = 0.85			a = 6.21°		
Upper surface	-15.0	+.265	+.234	+.198	+.025	+.229	+.031	+.001			+.026	+.237	+.054
	-13.8	+.085	+.051	+.003	-1.099	-1.923	-1.214	-1.953			-1.023	-1.485	-1.928
	-12.5	+.194	+.159	+.125	+.559	+.669	+1.180	+.894			+.935	+1.463	+.907
	-10.0	+.240	+.173	+.145	+.475	+.543	+1.141	+.844			+.751	+1.430	+.857
	-7.5	+.240	+.173	+.145	+.475	+1.029	+1.688	+1.633			+.746	+1.349	+.821
	0.0	+.248	+.173	+.145	+.475	+1.651	+1.639	+1.633			+.815	+1.232	+.784
	1.2	+.162	+.098	+.065	+.145	+1.265	+1.145	+1.145			+.815	+1.232	+.721
	2.4	+.085	+.051	+.003	-1.099	-1.923	-1.214	-1.953			+.800	+1.202	
	4.4	+.194	+.159	+.125	+.559	+.669	+1.180	+.894			+.802	+1.202	+.544
	7.5	+.240	+.173	+.145	+.475	+1.029	+1.688	+1.633			+.618	+1.370	+.499
	10.0	+.240	+.173	+.145	+.475	+1.029	+1.688	+1.633			+.618	+1.370	+.499
	12.5	+.240	+.173	+.145	+.475	+1.029	+1.688	+1.633			+.618	+1.370	+.499
	15.0	+.240	+.173	+.145	+.475	+1.029	+1.688	+1.633			+.618	+1.370	+.499
	19.6	+.254	+.156	+.125	+.475	+1.029	+1.688	+1.633			+.618	+1.370	+.499
Lower surface	24.5	+.263	+.234	+.198	+.025	+.229	+.031	+.001			+.618	+1.370	+.499
	29.0	+.248	+.173	+.145	+.475	+1.265	+1.145	+1.145			+.618	+1.370	+.499
	39.5	+.286	+.217	+.183	+.025	+.229	+.031	+.001			+.618	+1.370	+.499
	44.5	+.313	+.375	+.417	+.255	+.220	+1.158	+1.160			+.618	+1.370	+.499
	49.5	+.329	+.388	+.415	+.239	+.216	+1.158	+1.160			+.618	+1.370	+.499
	54.5	+.326	+.385	+.397	+.220	+.194	+1.143	+1.145			+.618	+1.370	+.499
	59.5	+.339	+.372	+.350	+.202	+.165	+1.120	+1.119			+.618	+1.370	+.499
	64.5	+.334	+.356	+.334	+.180	+.133	+1.097	+1.110			+.618	+1.370	+.499
	69.5	+.335	+.356	+.334	+.180	+1.097	+1.095	+1.095			+.618	+1.370	+.499
	74.6	+.338	+.274	+.155	+.102	+1.082	+1.050	+1.050			+.618	+1.370	+.499
	79.5	+.291	+.201	+.101	+.060	+1.049	+1.018	+1.018			+.618	+1.370	+.499
	84.6	+.268	+.132	+.065	+.025	+1.020	+1.035	+1.035			+.618	+1.370	+.499
	89.6	+.223	+.061	+.019	+.025	+1.020	+1.035	+1.035			+.618	+1.370	+.499
	94.6	+.151	+.022	+.013	+.027	+1.020	+1.035	+1.035			+.618	+1.370	+.499
Upper surface	-13.8	+.377	+.369	+.318	+.264	+.305	+.383	+.368			+.449	+.429	+.404
	-12.5	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.411	+.384	+.350
	-10.0	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.350	+.319	+.272
	-7.5	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.291	+.253	+.185
	0.0	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.241	+.221	+.142
	1.3	+.398	+.377	+.369	+.318	+.379	+.383	+.368			+.449	+.429	+.404
	2.6	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.411	+.384	+.350
	5.0	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.350	+.319	+.272
	7.5	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.291	+.253	+.185
	10.0	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.241	+.221	+.142
	12.5	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.449	+.429	+.404
	15.0	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.411	+.384	+.350
	19.6	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.350	+.319	+.272
	24.5	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.291	+.253	+.185
Lower surface	-13.8	+.377	+.369	+.318	+.264	+.305	+.313	+.381			+.449	+.429	+.404
	-12.5	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.411	+.384	+.350
	-10.0	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.350	+.319	+.272
	-7.5	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.291	+.253	+.185
	0.0	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.241	+.221	+.142
	1.3	+.398	+.377	+.369	+.318	+.379	+.383	+.368			+.449	+.429	+.404
	2.6	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.411	+.384	+.350
	5.0	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.350	+.319	+.272
	7.5	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.291	+.253	+.185
	10.0	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.241	+.221	+.142
	12.5	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.449	+.429	+.404
	15.0	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.411	+.384	+.350
	19.6	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.350	+.319	+.272
	24.5	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.291	+.253	+.185
Upper surface	-13.8	+.377	+.369	+.318	+.264	+.305	+.313	+.381			+.449	+.429	+.404
	-12.5	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.411	+.384	+.350
	-10.0	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.350	+.319	+.272
	-7.5	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.291	+.253	+.185
	0.0	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.241	+.221	+.142
	1.3	+.398	+.377	+.369	+.318	+.379	+.383	+.368			+.449	+.429	+.404
	2.6	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.411	+.384	+.350
	5.0	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.350	+.319	+.272
	7.5	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.291	+.253	+.185
	10.0	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.241	+.221	+.142
	12.5	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.449	+.429	+.404
	15.0	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.411	+.384	+.350
	19.6	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.350	+.319	+.272
	24.5	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.291	+.253	+.185
Lower surface	-13.8	+.377	+.369	+.318	+.264	+.305	+.313	+.381			+.449	+.429	+.404
	-12.5	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.411	+.384	+.350
	-10.0	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.350	+.319	+.272
	-7.5	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.291	+.253	+.185
	0.0	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.241	+.221	+.142
	1.3	+.398	+.377	+.369	+.318	+.379	+.383	+.368			+.449	+.429	+.404
	2.6	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.411	+.384	+.350
	5.0	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.350	+.319	+.272
	7.5	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.291	+.253	+.185
	10.0	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.241	+.221	+.142
	12.5	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.449	+.429	+.404
	15.0	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.411	+.384	+.350
	19.6	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.350	+.319	+.272
	24.5	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.291	+.253	+.185
Upper surface	-13.8	+.377	+.369	+.318	+.264	+.305	+.313	+.381			+.449	+.429	+.404
	-12.5	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.411	+.384	+.350
	-10.0	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.350	+.319	+.272
	-7.5	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.291	+.253	+.185
	0.0	+.322	+.313	+.299	+.264	+.305	+.313	+.381			+.241	+.221	+.142
	1.3	+.398	+.377	+.369	+.318	+.379	+.383	+.368			+.449	+.429	+.404
	2.6	+.322	+.313	+.299</									

TABLE I. - WING WITH LEADING-EDGE CHORD-EXTENSION - Continued

TABLE I. - WING WITH LEADING-EDGE CHORD-EXTENSION - Continued

Percent chord	Pressure coefficient										$M = 0.90$	$\alpha = 8.22^\circ$	
	0.135b/2	0.25b/2	0.40b/2	0.55b/2	0.70b/2	0.85b/2	0.95b/2	0.135b/2	0.25b/2	0.40b/2			
	$M = 0.90$	$\alpha = 6.21^\circ$	$M = 0.90$	$\alpha = 8.22^\circ$									
-15.0	-292	+117	+059	+118	-121	+172	+148	+303	+056	+132	+331	+343	+259
-13.5	-443	+117	+125	+172	-1061	+139	+109	+120	+122	+125	+130	+143	+143
-12.5	-443	+147	+125	+172	-1061	+139	+109	+120	+122	+125	+130	+143	+143
-10.0	-275	+689	+1076	+1181	-904	+975	+795	+354	+1007	+1261	+1250	+937	+889
-7.5	-275	+571	+969	+1101	-1061	+139	+109	+389	+814	+1188	+1200	+160	+850
0.0	-275	+571	+969	+1101	-1061	+139	+109	+389	+814	+1188	+1200	+160	+850
1.2	+133	-117	-125	-172	-1061	+139	+109	+120	+122	+125	+130	+143	+143
2.4	+133	-147	-125	-172	-1061	+139	+109	+120	+122	+125	+130	+143	+143
5.0	+275	+689	+1076	+1181	-904	+975	+795	+354	+1007	+1261	+1250	+937	+889
7.5	+275	+571	+969	+1101	-1061	+139	+109	+389	+814	+1188	+1200	+160	+850
10.0	+317	+537	+805	+994	+947	+873	+718	+440	+748	+1110	+1147	+160	+850
12.5	+317	+502	+546	+917	+948	+899	+632	+440	+748	+1110	+1147	+160	+850
15.0	+310	+502	+546	+917	+948	+899	+632	+440	+748	+1110	+1147	+160	+850
24.5	+321	+429	+501	+570	+888	+577	+512	+401	+554	+670	+903	+941	+722
29.5	+311	+427	+496	+616	+714	+452	+462	+387	+527	+555	+804	+844	+659
34.5	+363	+432	+509	+695	+635	+427	+419	+426	+512	+545	+804	+844	+659
39.5	+338	+443	+521	+762	+547	+375	+390	+402	+512	+545	+804	+844	+659
44.5	+369	+452	+531	+762	+547	+375	+390	+402	+512	+545	+804	+844	+659
49.5	+371	+574	+565	+713	+238	+259	+333	+448	+528	+576	+680	+470	+429
54.5	+387	+488	+549	+683	+156	+193	+304	+445	+539	+581	+612	+437	+406
59.5	+408	+489	+555	+421	+110	+138	+269	+460	+540	+578	+612	+374	+373
64.5	+429	+489	+564	+212	+078	+092	+264	+482	+540	+578	+612	+374	+373
69.6	+423	+422	+422	+422	+422	+422	+422	+422	+422	+422	+422	+422	+422
74.6	+501	+445	+092	+048	-023	+221	+059	+454	+402	+217	+209	+223	+327
79.6	+457	+286	+037	+026	+006	+208	+483	+492	+258	+167	+161	+198	+314
84.6	+444	+308	+150	+014	+007	+187	+488	+347	+158	+140	+104	+180	+297
89.6	+415	+231	+070	+017	+031	+046	+166	+446	+221	+92	+109	+084	+279
94.6	+353	+120	+018	+031	+060	+062	+137	+366	+124	+051	+085	+020	+257
-13.8	-401	+474	+448	+481	+461	+416	+395	+439	+541	+533	+526	+516	+451
2.6	+397	+418	+384	+404	+400	+361	+330	+466	+462	+462	+460	+476	+379
5.0	+374	+323	+305	+340	+128	+124	+056	+447	+502	+462	+423	+204	+186
7.6	+338	+274	+244	+281	+244	+211	+155	+395	+389	+389	+389	+129	+060
10.1	+241	+241	+241	+241	+092	+067	+120	+392	+327	+301	+338	+160	+108
15.0	+250	+187	+151	+199	+059	+035	+153	+347	+271	+236	+280	+128	+090
19.6	+216	+139	+128	+167	+034	+086	+052	+307	+224	+208	+244	+095	+131
24.5	+172	+094	+078	+098	+041	+009	+129	+257	+176	+155	+176	+097	+110
29.5	+144	+050	+049	+049	+049	+049	+049	+110	+110	+110	+110	+028	+028
34.5	+103	+013	+002	+002	+002	+002	+002	+104	+104	+104	+104	+018	+018
39.5	+013	+002	+002	+002	+002	+002	+002	+082	+157	+083	+072	+046	+098
44.5	+014	+019	+046	+030	+094	+094	+094	+072	+056	+017	+009	+070	+107
49.5	+020	+036	+037	+062	+050	+108	+092	+088	+092	+050	+005	+019	+094
54.5	+009	+030	+047	+070	+059	+080	+080	+066	+066	+066	+005	+017	+087
59.5	+049	+056	+067	+059	+065	+065	+065	+054	+054	+054	+024	+054	+078
64.5	+040	+059	+065	+065	+065	+071	+054	+037	+010	+011	+032	+054	+071
69.6	+043	+056	+056	+056	+056	+056	+056	+033	+017	+011	+010	+010	+061
74.6	+043	+056	+056	+056	+056	+056	+056	+026	+010	+010	+011	+010	+061
79.6	+046	+048	+044	+044	+044	+044	+044	+029	+029	+004	+029	+013	+008
84.6	+049	+049	+023	+023	+023	+023	+023	+004	+004	+010	+011	+010	+023
89.6	+052	+052	+052	+052	+052	+052	+052	+004	+004	+010	+011	+010	+061
94.6	+076	+044	+000	+032	+056	+062	+028	+037	+012	+010	+010	+010	+058
-13.8	-250	+476	+566	+797	+632	+1234	+857	+135	+900	+985	+767	+810	+594
1.2	+070	+1372	+177	+820	+707	+230	+809	+985	+1289	+918	+736	+559	+707
5.0	+594	+1291	+158	+821	+707	+230	+809	+985	+1289	+918	+736	+445	+512
7.6	+656	+123	+138	+819	+707	+198	+776	+1204	+207	+890	+744	+617	+588
15.0	+687	+100	+1065	+774	+665	+156	+759	+948	+161	+897	+758	+624	+584
19.6	+654	+103	+105	+756	+650	+105	+746	+872	+130	+875	+758	+632	+564
24.5	+628	+1045	+965	+744	+635	+1009	+730	+776	+111	+852	+767	+642	+590
29.5	+597	+964	+928	+734	+597	+1054	+724	+746	+111	+852	+767	+642	+590
34.5	+597	+928	+871	+734	+597	+1054	+724	+746	+111	+852	+767	+642	+590
39.5	+562	+871	+822	+734	+597	+1054	+724	+746	+111	+852	+767	+642	+590
44.5	+562	+859	+859	+689	+593	+696	+677	+694	+120	+890	+744	+617	+588
49.5	+583	+669	+620	+661	+512	+637	+644	+653	+120	+890	+744	+617	+588
54.5	+599	+636	+787	+638	+482	+578	+644	+653	+926	+805	+680	+556	+489
59.5	+597	+617	+749	+615	+446	+534	+622	+631	+107	+780	+665	+574	+495
64.5	+572	+599	+729	+649	+405	+512	+592	+602	+98	+780	+665	+574	+495
69.6	+612	+521	+521	+521	+521	+521	+521	+566	+564	+564	+564	+442	+443
74.6	+609	+529	+612	+521	+521	+521	+521	+566	+564	+564	+564	+442	+443
79.6	+561	+394	+584	+521	+317	+318	+464	+620	+128	+736	+646	+557	+445
84.6	+505	+288	+551	+527	+288	+288	+464	+717	+128	+736	+646	+557	+445
89.6	+400	+146	+521	+521	+288	+288	+464	+717	+128	+736	+646	+557	+445
94.6	+311	+160	+494	+488	+269	+215	+436	+550	+690	+586	+500	+423	+368
-13.8	-401	+544	+557	+333	+349	+500	+663	+728	+736	+646	+557	+445	+319
2.6	+569	+589	+588	+545	+545	+274	+144	+800	+596	+612	+531	+444	+319
5.0	+589	+525	+490	+545	+287	+239	+055	+678	+652	+595	+609	+397	+321
7.6	+591	+488	+440	+464	+287	+239	+055	+678	+652	+595	+609	+397	+321
10.1	+562	+443	+411	+433	+239	+178	+025	+727	+583	+544	+540	+345	+263
15.0	+508	+390	+349	+377	+194	+128	+080	+650	+622	+555	+569	+345	+263
19.6	+447	+336	+302	+340	+170	+100	+050	+625	+583	+544	+540	+345	+263
24.5	+282	+299	+249	+249	+150	+077	+025	+628	+532	+424	+384	+377	+239
29.5	+341	+250	+228	+212	+121	+042	+156	+488	+386	+348	+323	+207	+119
34.5	+300	+214	+192	+160	+054	+015	+210	+439	+346	+311	+265	+167	+107
39.5	+264	+184	+159	+115	+045	+041	+200	+406	+313	+275	+220	+143	+143
44.5	+223	+152	+102	+037	+024	+024	+232	+330	+239	+200	+160	+92	+180
49.5	+181	+102	+037	+024	+024	+024	+232	+230	+239	+200	+160	+92	+180
54.5	+164	+121	+078	+007	+058	+018	+215	+235	+235	+171	+079	+001	+216
59.5	+148	+093	+057	+019	+081	+019	+197	+272	+193	+194	+040	+029	+152
64.5	+122	+076	+032	+046	+116	+210	+177	+243	+163	+104	+007	+068	+184
69.6	+095	+045	+013	+009	+161	+194	+141	+187	+112	+028	+003	+131	+223
74.6	+079	+045	+013	+009	+161	+194	+141	+187	+112	+028	+003	+131	+223
79.6	+035	+033	+108	+182	+174	+123	+091	+013	+089	+161	+245	+268	+268
84.6	+066	+015	+050	+141	+186	+161	+102	+150	+051	+049	+131	+180	+278
89.6	+027	+006	+098	+180	+217	+148	+114	+076	+006	+121	+177	+235	+296
94.6	+005	+039	+165	+247	+223	+131	+116	+046	+096	+212			

TABLE I. - WING WITH LEADING-EDGE CHORD-EXTENSION - Continued

Percent chord	Pressure coefficient												
	M = 0.90			M = 0.94			M = 0.98			M = 1.02			
	0.135b/2	0.25b/2	0.40b/2	0.55b/2	0.70b/2	0.85b/2	0.95b/2	0.135b/2	0.25b/2	0.40b/2	0.55b/2	0.70b/2	0.85b/2
-15.0	-0.007	-1.015	-0.900	-0.773	-0.623	-0.532	-0.490	-0.408	-0.350	-0.311	-0.256	-0.239	+0.27
-13.8	-0.446	-0.978	-0.847	-0.765	-0.561	-0.515	-0.561	-0.499	-0.420	-0.389	-0.371	-0.239	+0.290
-12.5	-0.767	-0.989	-0.833	-0.773	-0.563	-0.608	-0.576	-0.537	-0.462	-0.439	-0.391	-0.231	+0.260
-10.0	-0.914	-0.941	-0.833	-0.783	-0.576	-0.608	-0.586	-0.537	-0.461	-0.439	-0.392	-0.260	+0.253
-7.5	-0.951	-0.930	-0.847	-0.789	-0.586	-0.605	-0.586	-0.533	-0.460	-0.439	-0.392	-0.272	+0.262
-5.0	-0.967	-0.939	-0.821	-0.804	-0.630	-0.589	-0.586	-0.523	-0.460	-0.439	-0.392	-0.272	+0.260
0.0	-0.976	-0.931	-0.836	-0.817	-0.644	-0.586	-0.524	-0.492	-0.412	-0.389	-0.340	-0.239	+0.267
1.2	-0.446	-0.978	-0.847	-0.765	-0.561	-0.515	-0.561	-0.499	-0.420	-0.389	-0.371	-0.239	+0.290
2.4	-0.767	-0.989	-0.833	-0.773	-0.563	-0.608	-0.576	-0.537	-0.462	-0.439	-0.391	-0.231	+0.260
5.0	-0.914	-0.941	-0.833	-0.783	-0.576	-0.608	-0.586	-0.537	-0.461	-0.439	-0.392	-0.260	+0.253
7.5	-0.951	-0.930	-0.847	-0.789	-0.586	-0.605	-0.586	-0.533	-0.460	-0.439	-0.392	-0.272	+0.262
10.0	-0.967	-0.939	-0.821	-0.804	-0.630	-0.589	-0.586	-0.523	-0.460	-0.439	-0.392	-0.272	+0.260
15.0	-0.976	-0.931	-0.836	-0.817	-0.644	-0.586	-0.524	-0.492	-0.412	-0.389	-0.340	-0.239	+0.267
19.6	-0.956	-0.921	-0.830	-0.842	-0.657	-0.600	-0.534	-0.491	-0.415	-0.384	-0.356	-0.216	+0.255
24.5	-0.915	-0.921	-0.816	-0.834	-0.656	-0.595	-0.537	-0.497	-0.429	-0.399	-0.356	-0.199	+0.244
29.5	-0.873	-0.921	-0.816	-0.834	-0.656	-0.595	-0.537	-0.497	-0.429	-0.399	-0.356	-0.199	+0.244
34.5	-0.835	-0.911	-0.816	-0.834	-0.656	-0.595	-0.537	-0.497	-0.429	-0.399	-0.356	-0.199	+0.244
39.5	-0.781	-0.894	-0.811	-0.708	-0.650	-0.588	-0.540	-0.490	-0.420	-0.389	-0.346	-0.266	+0.227
44.5	-0.777	-0.874	-0.802	-0.707	-0.647	-0.588	-0.540	-0.493	-0.423	-0.389	-0.347	-0.261	+0.227
49.5	-0.769	-0.870	-0.797	-0.705	-0.641	-0.588	-0.535	-0.478	-0.424	-0.389	-0.347	-0.261	+0.227
54.5	-0.746	-0.856	-0.790	-0.698	-0.638	-0.586	-0.527	-0.478	-0.425	-0.389	-0.347	-0.261	+0.227
59.5	-0.725	-0.832	-0.780	-0.692	-0.636	-0.574	-0.514	-0.478	-0.427	-0.389	-0.347	-0.261	+0.227
64.5	-0.720	-0.822	-0.778	-0.689	-0.632	-0.574	-0.514	-0.478	-0.427	-0.389	-0.347	-0.261	+0.227
69.6	-0.720	-0.822	-0.778	-0.689	-0.632	-0.574	-0.514	-0.478	-0.427	-0.389	-0.347	-0.261	+0.227
74.6	-0.735	-0.819	-0.753	-0.693	-0.621	-0.508	-0.482	-0.427	-0.389	-0.347	-0.261	+0.227	+0.009
79.5	-0.700	-0.806	-0.749	-0.680	-0.616	-0.502	-0.478	-0.421	-0.389	-0.347	-0.261	+0.227	+0.009
84.6	-0.690	-0.773	-0.737	-0.675	-0.608	-0.536	-0.478	-0.421	-0.389	-0.347	-0.261	+0.227	+0.009
89.6	-0.672	-0.743	-0.726	-0.663	-0.590	-0.530	-0.478	-0.421	-0.389	-0.347	-0.261	+0.227	+0.009
94.6	-0.604	-0.755	-0.712	-0.654	-0.594	-0.497	-0.432	-0.428	-0.389	-0.347	-0.261	+0.227	+0.009
-13.8	-0.209	+0.575	+0.420	+0.490	-0.355	+0.373	+0.300	-0.123	-0.123	-0.123	-0.123	-0.123	+0.123
-12.5	-0.249	+0.577	+0.417	+0.495	-0.354	+0.373	+0.300	-0.123	-0.123	-0.123	-0.123	-0.123	+0.123
-10.0	-0.210	+0.575	+0.414	+0.491	-0.354	+0.373	+0.300	-0.123	-0.123	-0.123	-0.123	-0.123	+0.123
-7.5	-0.205	+0.575	+0.414	+0.491	-0.354	+0.373	+0.300	-0.123	-0.123	-0.123	-0.123	-0.123	+0.123
-5.0	-0.200	+0.575	+0.414	+0.491	-0.354	+0.373	+0.300	-0.123	-0.123	-0.123	-0.123	-0.123	+0.123
0.0	-0.191	+0.575	+0.414	+0.491	-0.354	+0.373	+0.300	-0.123	-0.123	-0.123	-0.123	-0.123	+0.123
1.3	-0.209	+0.575	+0.420	+0.490	-0.355	+0.373	+0.300	-0.123	-0.123	-0.123	-0.123	-0.123	+0.123
2.6	-0.249	+0.577	+0.417	+0.495	-0.354	+0.373	+0.300	-0.123	-0.123	-0.123	-0.123	-0.123	+0.123
5.0	-0.210	+0.575	+0.414	+0.491	-0.354	+0.373	+0.300	-0.123	-0.123	-0.123	-0.123	-0.123	+0.123
7.5	-0.205	+0.575	+0.414	+0.491	-0.354	+0.373	+0.300	-0.123	-0.123	-0.123	-0.123	-0.123	+0.123
10.1	-0.212	+0.575	+0.414	+0.491	-0.354	+0.373	+0.300	-0.123	-0.123	-0.123	-0.123	-0.123	+0.123
15.1	-0.209	+0.575	+0.414	+0.491	-0.354	+0.373	+0.300	-0.123	-0.123	-0.123	-0.123	-0.123	+0.123
19.6	-0.207	+0.575	+0.414	+0.491	-0.354	+0.373	+0.300	-0.123	-0.123	-0.123	-0.123	-0.123	+0.123
24.5	-0.207	+0.575	+0.414	+0.491	-0.354	+0.373	+0.300	-0.123	-0.123	-0.123	-0.123	-0.123	+0.123
29.5	-0.207	+0.575	+0.414	+0.491	-0.354	+0.373	+0.300	-0.123	-0.123	-0.123	-0.123	-0.123	+0.123
34.5	-0.207	+0.575	+0.414	+0.491	-0.354	+0.373	+0.300	-0.123	-0.123	-0.123	-0.123	-0.123	+0.123
39.5	-0.207	+0.575	+0.414	+0.491	-0.354	+0.373	+0.300	-0.123	-0.123	-0.123	-0.123	-0.123	+0.123
44.5	-0.207	+0.575	+0.414	+0.491	-0.354	+0.373	+0.300	-0.123	-0.123	-0.123	-0.123	-0.123	+0.123
49.5	-0.207	+0.575	+0.414	+0.491	-0.354	+0.373	+0.300	-0.123	-0.123	-0.123	-0.123	-0.123	+0.123
54.5	-0.207	+0.575	+0.414	+0.491	-0.354	+0.373	+0.300	-0.123	-0.123	-0.123	-0.123	-0.123	+0.123
59.5	-0.207	+0.575	+0.414	+0.491	-0.354	+0.373	+0.300	-0.123	-0.123	-0.123	-0.123	-0.123	+0.123
64.5	-0.207	+0.575	+0.414	+0.491	-0.354	+0.373	+0.300	-0.123	-0.123	-0.123	-0.123	-0.123	+0.123
69.6	-0.207	+0.575	+0.414	+0.491	-0.354	+0.373	+0.300	-0.123	-0.123	-0.123	-0.123	-0.123	+0.123
74.6	-0.207	+0.575	+0.414	+0.491	-0.354	+0.373	+0.300	-0.123	-0.123	-0.123	-0.123	-0.123	+0.123
79.5	-0.207	+0.575	+0.414	+0.491	-0.354	+0.373	+0.300	-0.123	-0.123	-0.123	-0.123	-0.123	+0.123
84.6	-0.207	+0.575	+0.414	+0.491	-0.354	+0.373	+0.300	-0.123	-0.123	-0.123	-0.123	-0.123	+0.123
89.6	-0.207	+0.575	+0.414	+0.491	-0.354	+0.373	+0.300	-0.123	-0.123	-0.123	-0.123	-0.123	+0.123
94.6	-0.207	+0.575	+0.414	+0.491	-0.354	+0.373	+0.300	-0.123	-0.123	-0.123	-0.123	-0.123	+0.123
-13.8	-0.308	+0.336	+0.313	+0.197	-0.378	+0.167	+0.147	-0.175	-0.035	-0.158	-0.140	-0.140	+0.032
-12.5	-0.007	-0.711	-0.891	-0.941	-0.693	-0.676	-0.102	-0.102	-0.102	-0.102	-0.102	-0.102	+0.102
-10.0	-0.207	+0.305	+0.292	+0.194	-0.378	+0.167	+0.147	-0.175	-0.035	-0.158	-0.140	-0.140	+0.032
-7.5	-0.207	+0.305	+0.292	+0.194	-0.378	+0.167	+0.147	-0.175	-0.035	-0.158	-0.140	-0.140	+0.032
-5.0	-0.207	+0.305	+0.292	+0.194	-0.378	+0.167	+0.147	-0.175	-0.035	-0.158	-0.140	-0.140	+0.032
0.0	-0.207	+0.305	+0.292	+0.194	-0.378	+0.167	+0.147	-0.175	-0.035	-0.158	-0.140	-0.140	+0.032
1.3	-0.207	+0.305	+0.292	+0.194	-0.378	+0.167	+0.147	-0.175	-0.035	-0.158	-0.140	-0.140	+0.032
2.6	-0.207	+0.305	+0.292	+0.194	-0.378	+0.167	+0.147	-0.175	-0.035	-0.158	-0.140	-0.140	+0.032
5.0	-0.207	+0.305	+0.292	+0.194	-0.378	+0.167	+0.147	-0.175	-0.035	-0.158	-0.140	-0.140	+0.032
7.5	-0.207	+0.305	+0.292	+0.194	-0.378	+0.167	+0.147	-0.175	-0.035	-0.158	-0.140	-0.140	+0.032
10.1	-0.207	+0.305	+0.292	+0.194	-0.378	+0.167	+0.147	-0.175	-0.035	-0.158	-0.140	-0.140	+0.032
15.0	-0.207	+0.305	+0.292	+0.194	-0.378	+0.167	+0.147	-0.175	-0.035	-0.158	-0.140	-0.140	+0.032
19.6	-0.207	+0.305	+0.292	+0.194	-0.378	+0.167	+0.147	-0.175	-0.035	-0.158	-0.140	-0.140	+0.032
24.5	-0.207	+0.305	+0.292	+0.194	-0.378	+0.167	+0.147	-0.175	-0.035	-0.158	-0.140	-0.140	+0.032
29.5	-0.207	+0.305	+0.292	+0.194	-0.378	+0.167	+0.147	-0.175	-0.035	-0.158	-0.140	-0.140	+0.032
34.5	-0.207	+0.305	+0.292	+0.194	-0.378	+0.167	+0.147	-0.175	-0.035	-0.158	-0.140	-0.140	+0.032
39.5	-0.207	+0.305	+0.292	+0.194	-0.378	+0.167	+0.147	-0.175	-0.035	-0.158	-0.140	-0.140	+0.032
44.5	-0.207	+0.305	+0.292	+0.194	-0.378	+0.167	+0.147	-0.175	-0.035	-0.158	-0.140	-0.140	+0.032
49.5	-0.207	+0.305	+0.292	+0.194	-0.378	+0.167	+0.147	-0.175	-0.035	-0.158	-0.140	-0.140	+0.032
54.5	-0.207	+0.305	+0.292	+0.194	-0.378	+0.167	+0.147	-0.175	-0.035	-0.158	-0.140	-0.140	+0.032
59.5	-0.207	+0.305	+0.292	+0.194	-0.378	+0.167	+0.147	-0.175	-0.035	-0.158	-0.140	-0.140	+0.032
64.5	-0.207	+0.305	+0.292	+0.194	-0.378	+0.167	+0.147	-0.175	-0.035	-0.158	-0.140	-0.140	+0.032
69.6	-0.207	+0.305	+0.292	+0.194	-0.378	+0.167	+0.147	-0.175	-0.035	-0.158			

TABLE I. - WING WITH LEADING-EDGE CHORD-EXTENSION - Continued

TABLE I - WING WITH LEADING-EDGE CHORD-EXTENSION - Continued

Percent chord	Pressure coefficient														
	M = 0.98			a = 0.21°			M = 0.98			a = 4.17°					
	0.135b/2	0.25b/2	0.40b/2	0.55b/2	0.70b/2	0.85b/2	0.95b/2	0.135b/2	0.25b/2	0.40b/2	0.55b/2	0.70b/2	0.85b/2		
Upper surface															
-15.0	-0.059	-0.054	-0.050	-0.046	-0.041	-0.036	-0.031	-0.026	-0.021	-0.016	-0.011	-0.006			
-13.8	-0.059	-0.054	-0.050	-0.046	-0.041	-0.036	-0.031	-0.026	-0.021	-0.016	-0.011	-0.006			
-12.5	-0.059	-0.054	-0.050	-0.046	-0.041	-0.036	-0.031	-0.026	-0.021	-0.016	-0.011	-0.006			
-10.0	-0.059	-0.054	-0.050	-0.046	-0.041	-0.036	-0.031	-0.026	-0.021	-0.016	-0.011	-0.006			
-7.5	-0.059	-0.054	-0.050	-0.046	-0.041	-0.036	-0.031	-0.026	-0.021	-0.016	-0.011	-0.006			
-5.0	-0.059	-0.054	-0.050	-0.046	-0.041	-0.036	-0.031	-0.026	-0.021	-0.016	-0.011	-0.006			
0.0	-0.059	-0.054	-0.050	-0.046	-0.041	-0.036	-0.031	-0.026	-0.021	-0.016	-0.011	-0.006			
1.2	+0.314	+0.529	+0.550	+0.520	+0.208	+0.261	+0.310	+0.322	+0.383	+0.366	+0.272	+0.340	+0.514		
2.5	+0.200	+0.026	+0.082	+0.008	+0.005	+0.002	+0.001	+0.001	+0.001	+0.001	+0.001	+0.001	+0.001		
5.0	+0.119	+0.022	+0.008	+0.005	+0.002	+0.001	+0.001	+0.001	+0.001	+0.001	+0.001	+0.001	+0.001		
7.5	+0.075	+0.039	+0.103	+0.092	+0.005	+0.002	+0.001	+0.001	+0.001	+0.001	+0.001	+0.001	+0.001		
10.0	+0.054	+0.060	+0.131	+0.111	+0.026	+0.024	+0.023	+0.021	+0.017	+0.016	+0.015	+0.014	+0.013		
12.5	+0.018	+0.089	+0.162	+0.136	+0.026	+0.024	+0.023	+0.021	+0.017	+0.016	+0.015	+0.014	+0.013		
15.0	+0.011	+0.103	+0.173	+0.133	+0.026	+0.024	+0.023	+0.021	+0.017	+0.016	+0.015	+0.014	+0.013		
17.5	+0.007	+0.144	+0.224	+0.172	+0.026	+0.024	+0.023	+0.021	+0.017	+0.016	+0.015	+0.014	+0.013		
20.0	+0.026	+0.133	+0.191	+0.161	+0.026	+0.024	+0.023	+0.021	+0.017	+0.016	+0.015	+0.014	+0.013		
22.5	+0.045	+0.154	+0.233	+0.191	+0.026	+0.024	+0.023	+0.021	+0.017	+0.016	+0.015	+0.014	+0.013		
25.0	+0.074	+0.174	+0.273	+0.230	+0.026	+0.024	+0.023	+0.021	+0.017	+0.016	+0.015	+0.014	+0.013		
27.5	+0.107	+0.181	+0.214	+0.199	+0.026	+0.024	+0.023	+0.021	+0.017	+0.016	+0.015	+0.014	+0.013		
30.0	+0.077	+0.181	+0.233	+0.231	+0.026	+0.024	+0.023	+0.021	+0.017	+0.016	+0.015	+0.014	+0.013		
32.5	+0.123	+0.194	+0.249	+0.360	+0.026	+0.024	+0.023	+0.021	+0.017	+0.016	+0.015	+0.014	+0.013		
35.0	+0.145	+0.220	+0.258	+0.386	+0.026	+0.024	+0.023	+0.021	+0.017	+0.016	+0.015	+0.014	+0.013		
37.5	+0.174	+0.244	+0.272	+0.416	+0.026	+0.024	+0.023	+0.021	+0.017	+0.016	+0.015	+0.014	+0.013		
40.0	+0.227	+0.277	+0.293	+0.413	+0.026	+0.024	+0.023	+0.021	+0.017	+0.016	+0.015	+0.014	+0.013		
42.5	+0.222	+0.222	+0.090	+0.056	+0.083	+0.110	+0.155	+0.304	+0.226	+0.232	+0.143	+0.144	+0.054	+0.020	
45.0	+0.041	+0.136	+0.124	+0.160	+0.026	+0.024	+0.023	+0.021	+0.017	+0.016	+0.015	+0.014	+0.013		
47.5	+0.024	+0.077	+0.159	+0.144	+0.096	+0.110	+0.063	+0.135	+0.330	+0.226	+0.232	+0.143	+0.144	+0.054	+0.020
50.0	+0.027	+0.087	+0.159	+0.144	+0.096	+0.110	+0.063	+0.135	+0.330	+0.226	+0.232	+0.143	+0.144	+0.054	+0.020
52.5	+0.022	+0.097	+0.159	+0.144	+0.096	+0.110	+0.063	+0.135	+0.330	+0.226	+0.232	+0.143	+0.144	+0.054	+0.020
55.0	+0.022	+0.097	+0.159	+0.144	+0.096	+0.110	+0.063	+0.135	+0.330	+0.226	+0.232	+0.143	+0.144	+0.054	+0.020
57.5	+0.022	+0.097	+0.159	+0.144	+0.096	+0.110	+0.063	+0.135	+0.330	+0.226	+0.232	+0.143	+0.144	+0.054	+0.020
60.0	+0.022	+0.097	+0.159	+0.144	+0.096	+0.110	+0.063	+0.135	+0.330	+0.226	+0.232	+0.143	+0.144	+0.054	+0.020
62.5	+0.022	+0.097	+0.159	+0.144	+0.096	+0.110	+0.063	+0.135	+0.330	+0.226	+0.232	+0.143	+0.144	+0.054	+0.020
65.0	+0.022	+0.097	+0.159	+0.144	+0.096	+0.110	+0.063	+0.135	+0.330	+0.226	+0.232	+0.143	+0.144	+0.054	+0.020
67.5	+0.022	+0.097	+0.159	+0.144	+0.096	+0.110	+0.063	+0.135	+0.330	+0.226	+0.232	+0.143	+0.144	+0.054	+0.020
70.0	+0.022	+0.097	+0.159	+0.144	+0.096	+0.110	+0.063	+0.135	+0.330	+0.226	+0.232	+0.143	+0.144	+0.054	+0.020
72.5	+0.022	+0.097	+0.159	+0.144	+0.096	+0.110	+0.063	+0.135	+0.330	+0.226	+0.232	+0.143	+0.144	+0.054	+0.020
75.0	+0.022	+0.097	+0.159	+0.144	+0.096	+0.110	+0.063	+0.135	+0.330	+0.226	+0.232	+0.143	+0.144	+0.054	+0.020
77.5	+0.022	+0.097	+0.159	+0.144	+0.096	+0.110	+0.063	+0.135	+0.330	+0.226	+0.232	+0.143	+0.144	+0.054	+0.020
80.0	+0.022	+0.097	+0.159	+0.144	+0.096	+0.110	+0.063	+0.135	+0.330	+0.226	+0.232	+0.143	+0.144	+0.054	+0.020
82.5	+0.022	+0.097	+0.159	+0.144	+0.096	+0.110	+0.063	+0.135	+0.330	+0.226	+0.232	+0.143	+0.144	+0.054	+0.020
85.0	+0.022	+0.097	+0.159	+0.144	+0.096	+0.110	+0.063	+0.135	+0.330	+0.226	+0.232	+0.143	+0.144	+0.054	+0.020
87.5	+0.022	+0.097	+0.159	+0.144	+0.096	+0.110	+0.063	+0.135	+0.330	+0.226	+0.232	+0.143	+0.144	+0.054	+0.020
90.0	+0.022	+0.097	+0.159	+0.144	+0.096	+0.110	+0.063	+0.135	+0.330	+0.226	+0.232	+0.143	+0.144	+0.054	+0.020
Lower surface															
-13.8	+0.041	+0.136	+0.124	+0.160	+0.026	+0.024	+0.023	+0.021	+0.017	+0.016	+0.015	+0.014	+0.013		
-12.5	+0.041	+0.136	+0.124	+0.160	+0.026	+0.024	+0.023	+0.021	+0.017	+0.016	+0.015	+0.014	+0.013		
-10.0	+0.041	+0.136	+0.124	+0.160	+0.026	+0.024	+0.023	+0.021	+0.017	+0.016	+0.015	+0.014	+0.013		
-7.5	+0.041	+0.136	+0.124	+0.160	+0.026	+0.024	+0.023	+0.021	+0.017	+0.016	+0.015	+0.014	+0.013		
0.0	+0.041	+0.136	+0.124	+0.160	+0.026	+0.024	+0.023	+0.021	+0.017	+0.016	+0.015	+0.014	+0.013		
1.2	+0.218	+0.019	+0.001	+0.048	+0.026	+0.023	+0.021	+0.018	+0.015	+0.012	+0.010	+0.008	+0.006		
2.5	+0.158	+0.019	+0.001	+0.034	+0.021	+0.018	+0.015	+0.012	+0.010	+0.008	+0.006	+0.005	+0.004		
5.0	+0.104	+0.010	+0.004	+0.047	+0.026	+0.023	+0.021	+0.018	+0.015	+0.012	+0.010	+0.008	+0.006		
7.5	+0.070	+0.010	+0.004	+0.047	+0.026	+0.023	+0.021	+0.018	+0.015	+0.012	+0.010	+0.008	+0.006		
10.0	+0.067	+0.027	+0.133	+0.096	+0.026	+0.023	+0.021	+0.018	+0.015	+0.012	+0.010	+0.008	+0.006		
12.5	+0.067	+0.027	+0.133	+0.096	+0.026	+0.023	+0.021	+0.018	+0.015	+0.012	+0.010	+0.008	+0.006		
15.0	+0.018	+0.042	+0.098	+0.102	+0.026	+0.023	+0.021	+0.018	+0.015	+0.012	+0.010	+0.008	+0.006		
17.5	+0.013	+0.042	+0.133	+0.124	+0.026	+0.023	+0.021	+0.018	+0.015	+0.012	+0.010	+0.008	+0.006		
20.0	+0.020	+0.042	+0.168	+0.144	+0.026	+0.023	+0.021	+0.018	+0.015	+0.012	+0.010	+0.008	+0.006		
22.5	+0.020	+0.042	+0.168	+0.144	+0.026	+0.023	+0.021	+0.018	+0.015	+0.012	+0.010	+0.008	+0.006		
25.0	+0.020	+0.042	+0.168	+0.144	+0.026	+0.023	+0.021	+0.018	+0.015	+0.012	+0.010	+0.008	+0.006		
27.5	+0.020	+0.042	+0.168	+0.144	+0.026	+0.023	+0.021	+0.018	+0.015	+0.012	+0.010	+0.008	+0.006		
30.0	+0.020	+0.042	+0.168	+0.144	+0.026	+0.023	+0.021	+0.018	+0.015	+0.012	+0.010	+0.008	+0.006		
32.5	+0.020	+0.042	+0.168	+0.144	+0.026	+0.023	+0.021	+0.018	+0.015	+0.012	+0.010	+0.008	+0.006		
35.0	+0.020	+0.042	+0.168	+0.144	+0.026	+0.023	+0.021	+0.018	+0.015	+0.012	+0.010	+0.008	+0.006		
37.5	+0.020	+0.042	+0.168	+0.144	+0.026	+0.023	+0.021	+0.018	+0.015	+0.012	+0.010	+0.008	+0.006		
40.0	+0.020	+0.042	+0.168	+0.144	+0.026	+0.023	+0.021	+0.018	+0.015	+0.012	+0.010	+0.008	+0.006		
42.5	+0.020	+0.042	+0.168	+0.144	+0.026	+0.023	+0.021	+0.018	+0.015	+0.012	+0.010	+0.008	+0.006		
45.0	+0.020	+0.042	+0.168	+0.144	+0.026	+0.023	+0.021	+0.018	+0.015	+0.012	+0.010	+0.008	+0.006		
47.5	+0.020	+0.042	+0.168	+0.144	+0.026	+0.023	+0.021	+0.018	+0.015	+0.012	+0.010	+0.008	+0.006		
50.0	+0.020	+0.042	+0.168	+0.144	+0.026	+0.023	+0.021	+0.018	+0.015	+0.012	+0.010	+0.008	+0.006		
52.5	+0.020	+0.042	+0.168	+0.144	+0.026	+0.023	+0.021	+0.018	+0.015	+0.012	+0.010	+0.008	+0.006		
55.0	+0.020	+0.042	+0.168	+0.144	+0.026	+0.023	+0.021	+0.018	+0.015	+0.012	+0.010	+0.008	+0.006		
57.5	+0.020	+0.042	+0.168	+0.144	+0.026	+0.023	+0.021	+0.018	+0.015	+0.012	+0.010	+0.008	+0.006		
60.0	+0														

TABLE L - WING WITH LEADING-EDGE CHORD-EXTENSION - Continued

Per-cent chord		Pressure coefficient													
		0.135b/2	0.25b/2	0.40b/2	0.55b/2	0.70b/2	0.85b/2	0.95b/2	0.135b/2	0.25b/2	0.40b/2	0.55b/2	0.70b/2	0.85b/2	0.95b/2
M = 0.98	a = 12.97°	M = 1.00							a = 21°						
Upper surface															
-15.0															
-13.8															
-12.5															
-10.0															
-7.5															
-5.0															
0.0	+308	+342	-+32	-+667	-748	-1116	+1053	+322	+551	+564	+532	+391	+417		
1.2	+390	-1221	-1133	-1193	-1155	-1193	+887	-1105	-1040	+146	+002	+002	+173	+197	
2.4	+390	-1221	-1133	-1193	-1155	-1193	+887	-1105	-1040	+146	+002	+002	+157	+244	
5.0	-526	-1170	-1155	-1193	+887	-1105	-1040	+146	+002	+002	+070	+218	+275	+387	
7.5	-551	-1135	-1137	-1174	-1150	-1193	-924	-1091	-973	+115	+020	+076	+241	+301	+389
10.0	-611	-1090	-1148	-1150	-1174	-1193	-903	-1070	-953	+104	+020	+076	+265	+310	+366
12.5	-583	-1037	-1040	-1048	-1050	-1050	-900	-1070	-953	+104	+070	+139	+114	+292	+306
15.0	-581	-967	-1014	-1068	-1033	-1040	-932	-1093	-952	+092	+104	+106	+292	+371	
17.5	-536	-942	-1062	-1057	-1071	-1071	-999	-1007	-907	+021	+072	+168	+292	+302	+359
20.0	-504	-899	-1042	-1060	-1069	-1069	-965	-1086	-903	+111	+181	+240	+288	+309	+338
22.5	-501	-884	-1020	-1070	-1003	-1029	-864	-1056	-918	+138	+191	+240	+288	+309	+322
25.0	-504	-884	-1020	-1070	-1003	-1029	-864	-1056	-918	+138	+191	+240	+288	+309	+322
27.5	-547	-877	-1020	-1070	-1003	-1029	-864	-1056	-918	+138	+191	+240	+288	+309	+322
30.0	-469	-671	-999	-1065	-1065	-1065	-865	-865	-865	+100	+177	+234	+330	+338	+355
32.5	-502	-882	-1057	-1065	-1065	-1065	-865	-865	-865	+100	+177	+234	+330	+338	+355
35.0	-546	-809	-727	-530	-694	-694	-655	-655	-655	+232	+189	+208	+373	+438	+408
37.5	-543	-849	-968	-996	-843	-843	-127	-127	-127	+202	+246	+367	+373	+401	+466
40.0	-509	-523	-953	-929	-666	-623	-793	-136	-136	+225	+255	+374	+401	+450	+450
42.5	-529	-547	-935	-871	-647	-602	-752	-164	-164	+231	+255	+370	+398	+450	+450
45.0	-550	-554	-908	-827	-625	-779	-177	-177	-177	+243	+263	+365	+385	+398	+418
47.5	-547	-877	-1020	-1070	-1003	-1029	-864	-1056	-918	+138	+191	+240	+288	+309	+322
50.0	-596	-861	-750	-547	-706	-696	-221	-263	-340	+308	+206	+197	+113		
52.5	-546	-809	-727	-530	-694	-694	-655	-655	-655	+205	+245	+292	+184	+156	+084
55.0	-546	-809	-727	-530	-694	-694	-655	-655	-655	+232	+189	+208	+373	+438	+408
57.5	-547	-842	-962	-996	-843	-843	-127	-127	-127	+202	+246	+367	+373	+401	+466
60.0	-547	-842	-962	-996	-843	-843	-127	-127	-127	+231	+255	+374	+401	+450	+450
62.5	-547	-842	-962	-996	-843	-843	-127	-127	-127	+243	+263	+365	+385	+398	+418
65.0	-547	-877	-1020	-1070	-1003	-1029	-864	-1056	-918	+138	+191	+240	+288	+309	+322
67.5	-547	-877	-1020	-1070	-1003	-1029	-864	-1056	-918	+138	+191	+240	+288	+309	+322
70.0	-547	-877	-1020	-1070	-1003	-1029	-864	-1056	-918	+138	+191	+240	+288	+309	+322
72.5	-547	-877	-1020	-1070	-1003	-1029	-864	-1056	-918	+138	+191	+240	+288	+309	+322
75.0	-547	-877	-1020	-1070	-1003	-1029	-864	-1056	-918	+138	+191	+240	+288	+309	+322
77.5	-547	-877	-1020	-1070	-1003	-1029	-864	-1056	-918	+138	+191	+240	+288	+309	+322
80.0	-547	-877	-1020	-1070	-1003	-1029	-864	-1056	-918	+138	+191	+240	+288	+309	+322
82.5	-547	-877	-1020	-1070	-1003	-1029	-864	-1056	-918	+138	+191	+240	+288	+309	+322
85.0	-547	-877	-1020	-1070	-1003	-1029	-864	-1056	-918	+138	+191	+240	+288	+309	+322
87.5	-547	-877	-1020	-1070	-1003	-1029	-864	-1056	-918	+138	+191	+240	+288	+309	+322
90.0	-547	-877	-1020	-1070	-1003	-1029	-864	-1056	-918	+138	+191	+240	+288	+309	+322
92.5	-547	-877	-1020	-1070	-1003	-1029	-864	-1056	-918	+138	+191	+240	+288	+309	+322
95.0	-547	-877	-1020	-1070	-1003	-1029	-864	-1056	-918	+138	+191	+240	+288	+309	+322
Lower surface															
-15.0															
-13.8															
-12.5															
-10.0															
-7.5															
-5.0															
0.0	+268	+414	+400	+297	+514	+498	+712	+362	+271	+240	+090	+197	+064	+074	
1.2	+280	+634	-+824	-+616	+333	+287	+114	+238	+194	+104	+009	+102	+202	+315	
2.4	+591	-765	-811	-811	+287	+229	+025	+096	+019	+029	+046	+198	+232	+348	
5.0	+659	+595	+535	+548	+333	+287	+114	+137	+137	+137	+137	+007	+210	+256	+353
7.5	+675	+550	+486	+504	+287	+229	+025	+096	+019	+029	+046	+198	+232	+348	
10.0	+640	+511	+441	+441	+287	+229	+025	+096	+019	+029	+046	+198	+232	+348	
12.5	+572	+400	+400	+400	+247	+188	+047	+073	+007	+074	+076	+210	+256	+353	
15.0	+440	+311	+441	+441	+247	+188	+047	+073	+007	+074	+076	+210	+256	+353	
17.5	+459	+400	+400	+400	+247	+188	+047	+073	+007	+074	+076	+210	+256	+353	
20.0	+518	+365	+384	+221	+211	+037	+040	+024	+075	+075	+075	+250	+231	+271	
22.5	+453	+357	+315	+324	+204	+142	+106	+005	+066	+129	+132	+230	+231	+231	+333
25.0	+413	+316	+280	+264	+176	+109	+052	+027	+030	+106	+106	+227	+227	+227	+333
27.5	+372	+282	+249	+229	+110	+052	+027	+030	+106	+106	+227	+227	+227	+333	
30.0	+348	+282	+249	+229	+110	+052	+027	+030	+106	+106	+227	+227	+227	+333	
32.5	+288	+189	+123	+080	+040	+027	+030	+109	+109	+227	+227	+227	+333	+338	
35.0	+261	+188	+160	+085	+042	+027	+030	+109	+109	+227	+227	+227	+333	+428	
37.5	+225	+184	+135	+057	+014	+022	+030	+109	+109	+227	+227	+227	+333	+428	
40.0	+101	+224	+303	+358	+425	+590	+548	+201	+360	+413	+794	+751	+703	+742	
42.5	+101	+222	+297	+358	+425	+590	+548	+201	+360	+413	+794	+751	+703	+742	
45.0	+101	+222	+297	+358	+425	+590	+548	+201	+360	+413	+794	+751	+703	+742	
47.5	+144	+220	+314	+325	+455	+570	+570	+222	+314	+382	+816	+759	+705	+742	
50.0	+177	+253	+334	+467	+516	+570	+570	+222	+314	+382	+816	+759	+705	+742	
52.5	+348	+275	+236	+263	+402	+430	+430	+112	+316	+375	+375	+375	+375	+375	
55.0	+305	+231	+116	+105	+010	+016	+016	+352	+207	+270	+270	+270	+270	+270	
57.5	+227	+160	+106	+147	+022	+055	+055	+311	+234	+187	+228	+228	+228	+228	
60.0	+196	+122	+088	+123	+065	+001	+001	+132	+273	+189	+164	+195	+195	+195	
62.5	+151	+074	+034	+046	+051	+059	+059	+237	+225	+143	+111	+127	+127	+127	
65.0	+128	+048	+008	+015	+017	+027	+027	+123	+123	+078	+057	+015	+059	+075	
67.5	+104	+024	+004	+015	+017	+027	+027	+123	+123	+078	+057	+015	+059	+075	
70.0	+084	+024	+004	+015	+017	+027	+027	+123	+123	+078	+057	+015	+059	+075	
72.5	+084	+024	+004	+015	+017	+027	+027	+123	+123	+078	+057	+015	+059	+075	
75.0	+073	+024	+004	+015	+017	+027	+027	+123	+123	+078	+057	+015	+059	+075	
77.5	+040	+024	+004	+015	+017	+027	+027	+123	+123	+078	+057	+015	+059	+075	
80.0	+011	+024	+004	+015	+017	+027	+027	+123	+123	+078	+057	+015	+059	+075	
82.5	+011	+024	+004	+015	+017	+027	+027	+123	+123	+078	+057	+015	+059	+075	
85.0															

TABLE I. - WING WITH LEADING-EDGE CHORD-EXTENSION - Continued

		Pressure coefficient													
		M = 1.00						M = 1.00							
		$\alpha = 8.20^\circ$						$\alpha = 13.01^\circ$							
Percent chord		.0.135b/2	.0.25b/2	.0.40b/2	.0.55b/2	.0.70b/2	.0.85b/2	.0.95b/2	.0.135b/2	.0.25b/2	.0.40b/2	.0.55b/2	.0.70b/2	.0.85b/2	.0.95b/2
M = 1.00	$\alpha = 8.20^\circ$														
Upper surface	-15.0														
	-13.8														
	-12.5														
	-10.0														
	-7.5														
	-5.0														
	0.0														
	1.2	+370	+133	+068	+091	+1.104	+1.113	+0.004	+1.122	+0.077	+1.133	+1.132	+0.598	+0.484	
	2.4	+185	+105	+1.122	+1.113	+1.104	+1.113	+0.673	+1.127	+1.131	+1.140	+1.149	+0.980	+1.174	
	5.0	+219	+978	+1.055	+1.061	+1.104	+1.113	+0.515	+1.090	+1.107	+1.113	+1.113	+0.967	+1.179	
	7.6	+251	+852	+088	+091	+1.104	+1.113	+0.793	+0.978	+0.967	+1.046	+1.046	+1.077	+1.149	
	10.0	+251	+741	+051	+052	+1.104	+1.113	+0.793	+0.978	+0.967	+1.046	+1.046	+1.077	+1.149	
	15.0	+291	+648	+010	+011	+1.104	+1.113	+0.793	+0.978	+0.967	+1.046	+1.046	+1.077	+1.149	
	19.6	+293	+422	+074	+084	+1.104	+1.113	+0.521	+1.050	+1.072	+1.072	+1.072	+1.107	+1.183	
	24.5	+290	+390	+0610	+0859	+1.104	+1.113	+0.584	+1.018	+1.048	+1.048	+1.048	+1.113	+1.163	
	24.5	+276	+389	+0456	+0859	+1.104	+1.113	+0.499	+0.830	+0.848	+0.848	+0.848	+1.019	+1.139	
	30.5	+299	+370	+0445	+0859	+1.104	+1.113	+0.499	+0.830	+0.848	+0.848	+0.848	+1.019	+1.147	
	44.5	+331	+404	+0474	+0637	+0.823	+0.805	+0.746	+0.746	+0.641	+0.649	+0.649	+0.981	+0.923	
	49.5	+346	+424	+0494	+0612	+0.754	+0.826	+0.785	+0.785	+0.670	+0.653	+0.653	+0.944	+0.914	
	54.5	+349	+439	+0506	+0612	+0.687	+0.815	+0.838	+0.838	+0.743	+0.749	+0.749	+0.884	+0.899	
	59.5	+368	+446	+0501	+0618	+0.661	+0.808	+0.715	+0.715	+0.649	+0.654	+0.654	+0.825	+0.854	
	64.5	+376	+441	+0498	+0610	+0.654	+0.804	+0.710	+0.710	+0.631	+0.641	+0.641	+0.778	+0.820	
	69.6	+395						+0.640	+0.640	+0.506	+0.506	+0.506	+0.640	+0.693	
	74.6	+408	+459	+0535	+0592	+0.526	+0.445	+0.669	+0.524	+0.561	+0.507	+0.507	+0.602	+0.638	
	79.5	+395	+449	+0486	+0369	+0.408	+0.470	+0.678	+0.507	+0.549	+0.567	+0.567	+0.600	+0.490	
	84.6	+404	+422	+0394	+0284	+0.339	+0.480	+0.670	+0.512	+0.512	+0.512	+0.512	+0.551	+0.451	
	89.6	+390	+322	+0315	+0236	+0.285	+0.452	+0.663	+0.505	+0.412	+0.607	+0.607	+0.466	+0.409	
	94.6	+396	+173	+0236	+0199	+0.219	+0.395	+0.631	+0.470	+0.229	+0.485	+0.485	+0.392	+0.337	
Lower surface	-13.8														
	-12.5														
	-10.0														
	-7.5														
	-5.0														
	0.0														
	1.3	+480	+580	+051	+054										
	2.6	+500	+479	+0487	+0487	+0.404	+0.404	+0.554	+0.595	+0.595	+0.595	+0.595	+0.602	+0.483	
	5.0	+446	+402	+0402	+0402	+0.349	+0.349	+0.404	+0.404	+0.404	+0.404	+0.404	+0.600	+0.490	
	7.6	+403	+397	+0349	+0379	+0.199	+0.177	+0.404	+0.404	+0.404	+0.404	+0.404	+0.357	+0.451	
	10.1	+441	+363	+0335	+0350	+0.154	+0.123	+0.374	+0.374	+0.374	+0.374	+0.374	+0.241	+0.409	
	15.0	+395	+308	+0260	+0297	+0.123	+0.085	+0.349	+0.349	+0.349	+0.349	+0.349	+0.241	+0.303	
	19.6	+352	+259	+0228	+0263	+0.086	+0.127	+0.349	+0.349	+0.349	+0.349	+0.349	+0.241	+0.231	
	24.5	+327	+172	+0179	+0193	+0.086	+0.050	+0.349	+0.349	+0.349	+0.349	+0.349	+0.241	+0.040	
	29.5	+266	+181	+0181	+0181	+0.064	+0.072	+0.244	+0.244	+0.244	+0.244	+0.244	+0.244	+0.086	
	34.5	+229	+147	+0121	+0085	+0.003	+0.034	+0.267	+0.267	+0.267	+0.267	+0.267	+0.244	+0.183	
	39.5	+196	+119	+0095	+0043	+0.026	+0.053	+0.269	+0.269	+0.269	+0.269	+0.269	+0.244	+0.195	
	44.5	+157	+089	+073	+0026	+0.015	+0.122	+0.311	+0.311	+0.311	+0.311	+0.311	+0.302	+0.240	
	49.5	+134	+062	+048	+0045	+0.045	+0.174	+0.329	+0.329	+0.329	+0.329	+0.329	+0.302	+0.271	
	54.5	+109	+039	+0111	+0056	+0.084	+0.234	+0.327	+0.327	+0.327	+0.327	+0.327	+0.297	+0.289	
	59.5	+64.5	+067	+008	+010	+0.070	+0.105	+0.242	+0.242	+0.242	+0.242	+0.242	+0.297	+0.297	
Upper surface	-15.0														
	-13.8														
	-12.5														
	-10.0														
	-7.5														
	-5.0														
	0.0														
	1.2	+247	+541	+0568	+0533	+1.167	+1.195	+0.549	+0.607	+0.607	+0.607	+0.607	+0.418	+0.283	
	2.4	+260	+017	+040	+054			+0.201	+0.234	+0.335	+0.595	+0.595	+0.418	+0.301	
	7.5	+258	+020	+056	+056			+0.201	+0.234	+0.335	+0.595	+0.595	+0.418	+0.301	
	10.0	+241	+021	+056	+075			+0.201	+0.234	+0.335	+0.595	+0.595	+0.418	+0.301	
	15.0	+015	+078	+131	+101	+0.233	+0.270	+0.325	+0.325	+0.325	+0.325	+0.325	+0.418	+0.283	
	19.6	+004	+101	+133	+088	+0.263	+0.275	+0.325	+0.325	+0.325	+0.325	+0.325	+0.418	+0.283	
	24.5	+027	+085	+150	+120	+0.260	+0.273	+0.318	+0.318	+0.318	+0.318	+0.318	+0.418	+0.283	
	29.5	+085	+145	+151	+120	+0.264	+0.274	+0.318	+0.318	+0.318	+0.318	+0.318	+0.418	+0.283	
	34.5	+085	+143	+151	+120	+0.258	+0.274	+0.318	+0.318	+0.318	+0.318	+0.318	+0.418	+0.283	
	39.5	+061	+161	+212	+289	+0.245	+0.246	+0.318	+0.318	+0.318	+0.318	+0.318	+0.418	+0.283	
	44.5	+095	+179	+232	+309	+0.293	+0.322	+0.300	+0.300	+0.300	+0.300	+0.300	+0.418	+0.283	
	49.5	+121	+205	+249	+328	+0.334	+0.390	+0.359	+0.359	+0.359	+0.359	+0.359	+0.418	+0.283	
	54.5	+135	+229	+242	+346	+0.370	+0.420	+0.409	+0.409	+0.409	+0.409	+0.409	+0.418	+0.283	
	59.5	+176	+238	+248	+344	+0.402	+0.416	+0.416	+0.416	+0.416	+0.416	+0.416	+0.418	+0.283	
	64.5	+176	+242	+325	+398	+0.356	+0.398	+0.346	+0.346	+0.346	+0.346	+0.346	+0.418	+0.283	
	69.6	+174						+0.220	+0.266	+0.352	+0.352	+0.352	+0.418	+0.283	
	74.6	+200	+268	+309	+437	+0.197	+0.165	+0.078	+0.078	+0.078	+0.078	+0.078	+0.418	+0.283	
	79.5	+207	+260	+291	+417	+0.121	+0.095	+0.048	+0.048	+0.048	+0.048	+0.048	+0.418	+0.283	
	84.6	+219	+249	+248	+419	+0.121	+0.095	+0.049	+0.049	+0.049	+0.049	+0.049	+0.418	+0.283	
	89.6	+201	+194	+121	+052	+0.040	+0.009	+0.057	+0.057	+0.057	+0.057	+0.057	+0.418	+0.283	
	94.6	+227	+071	+058	+012	+0.022	+0.026	+0.088	+0.088	+0.088	+0.088	+0.088	+0.418	+0.283	
Lower surface	-13.8														
	-12.5														
	-10.0														
	-7.5														
	-5.0														
	0.0														
	1.3	+214	+056	+044	+053			+0.118	+0.182	+0.176	+0.176	+0.176	+0.111	+0.070	+0.021
	2.6	+193	+026	+024	+058			+0.135	+0.258	+0.258	+0.258	+0.258	+0.131	+0.070	+0.021
	5.0	+140	+019	+017	+051			+0.135	+0.258	+0.258	+0.258	+0.258	+0.131	+0.070	+0.021
	7.6	+093	+010	+008	+017			+0.135	+0.258	+0.258	+0.258	+0.258	+0.131	+0.070	+0.021
	10.1	+059	+006	+009	+028			+0.170	+0.293	+0.293	+0.293	+0.293	+0.131	+0.070	+0.021
	15.1	+039	+002	+002	+046			+0.170	+0.293	+0.293	+0.293	+0.293	+0.131	+0.070	+0.021
	19.6	+026	+001	+001	+046										

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TABLE I. - WING WITH LEADING-EDGE CHORD-EXTENSION - Concluded

Percent chord	Pressure coefficient															
	0.135b/2				0.25b/2				0.40b/2				0.55b/2			
	M = 1.03	a = 6.27°	M = 1.03	a = 8.26°	M = 1.03	a = 10.25°	M = 1.03	a = 12.24°	M = 1.03	a = 14.23°	M = 1.03	a = 16.22°	M = 1.03	a = 18.21°		
-15.0	-1.20	+301	+304	+277	+130	+280	+109	+114	+1.20	+1.17	+1.12	+0.93	+0.82	+0.33		
-13.8	-1.20	+187	+889	+958	+951	+737	+963	+985	+1.20	+1.04	+1.04	+0.98	+0.82	+0.35		
-12.5	-1.20	+005	+889	+943	+950	+526	+968	+991	+1.20	+1.04	+1.030	+0.98	+0.82	+0.35		
-10.0	-1.20	+131	+752	+874	+994	+337	+927	+952	+1.20	+1.04	+1.020	+0.98	+0.82	+0.35		
-7.5	-1.20	+144	+642	+804	+903	+367	+872	+914	+1.20	+1.04	+1.015	+0.98	+0.82	+0.35		
-5.0	-1.20	+209	+337	+755	+906	+720	+616	+604	+1.20	+1.04	+1.005	+0.98	+0.82	+0.35		
-2.5	-1.20	+202	+334	+486	+747	+709	+647	+640	+1.20	+1.04	+1.002	+0.98	+0.82	+0.35		
0.0	-1.20	+209	+320	+371	+692	+745	+702	+697	+1.20	+1.04	+1.000	+0.98	+0.82	+0.35		
19.6	-2.20	+320	+371	+692	+745	+702	+697	+697	+1.20	+1.04	+0.998	+0.98	+0.82	+0.35		
24.5	-2.20	+211	+290	+357	+486	+557	+519	+512	+1.20	+1.04	+0.995	+0.98	+0.82	+0.35		
29.5	-2.20	+202	+290	+357	+486	+557	+519	+512	+1.20	+1.04	+0.992	+0.98	+0.82	+0.35		
34.5	-2.20	+233	+320	+386	+555	+678	+715	+591	+1.20	+1.04	+0.989	+0.98	+0.82	+0.35		
44.5	-2.20	+257	+329	+400	+532	+674	+667	+606	+1.20	+1.04	+0.986	+0.98	+0.82	+0.35		
49.5	-2.20	+276	+340	+417	+527	+698	+625	+634	+1.20	+1.04	+0.983	+0.98	+0.82	+0.35		
54.5	-2.20	+283	+367	+427	+539	+530	+559	+647	+1.20	+1.04	+0.980	+0.98	+0.82	+0.35		
59.5	-2.20	+313	+370	+424	+541	+562	+562	+645	+1.20	+1.04	+0.977	+0.98	+0.82	+0.35		
64.5	-2.20	+313	+370	+414	+533	+562	+495	+574	+1.20	+1.04	+0.974	+0.98	+0.82	+0.35		
69.5	-2.20	+305	+370	+414	+533	+562	+495	+574	+1.20	+1.04	+0.971	+0.98	+0.82	+0.35		
74.6	-2.20	+332	+384	+448	+489	+462	+227	+391	+1.20	+1.04	+0.968	+0.98	+0.82	+0.35		
79.5	-2.20	+327	+376	+404	+426	+319	+239	+352	+1.20	+1.04	+0.965	+0.98	+0.82	+0.35		
84.6	-2.20	+318	+346	+387	+417	+235	+235	+300	+1.20	+1.04	+0.962	+0.98	+0.82	+0.35		
89.6	-2.20	+318	+250	+231	+147	+166	+160	+354	+1.20	+1.04	+0.959	+0.98	+0.82	+0.35		
94.6	-2.20	+330	+108	+143	+114	+113	+135	+354	+1.20	+1.04	+0.956	+0.98	+0.82	+0.35		
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-13.8	-2.20	+373	+518	+493	+520	+506	+437	+432	+1.20	+1.04	+0.951	+0.98	+0.82	+0.35		
-12.5	-2.20	+415	+461	+422	+445	+459	+353	+354	+1.20	+1.04	+0.948	+0.98	+0.82	+0.35		
-10.0	-2.20	+149	+373	+345	+387	+163	+147	+0.002	+1.20	+1.04	+0.945	+0.98	+0.82	+0.35		
-7.5	-2.20	+393	+324	+294	+337	+317	+299	+282	+1.20	+1.04	+0.942	+0.98	+0.82	+0.35		
-5.0	-2.20	+355	+296	+289	+304	+124	+0.91	+0.090	+1.20	+1.04	+0.939	+0.98	+0.82	+0.35		
0.0	-2.20	+101	+242	+208	+288	+105	+0.91	+0.092	+1.20	+1.04	+0.936	+0.98	+0.82	+0.35		
1.3	-2.20	+373	+518	+493	+520	+205	+152	+0.92	+1.20	+1.04	+0.933	+0.98	+0.82	+0.35		
2.2	-2.20	+415	+461	+422	+445	+205	+0.95	+0.084	+1.20	+1.04	+0.930	+0.98	+0.82	+0.35		
5.0	-2.20	+149	+373	+345	+387	+163	+0.95	+0.082	+1.20	+1.04	+0.927	+0.98	+0.82	+0.35		
7.6	-2.20	+393	+324	+294	+337	+163	+0.95	+0.082	+1.20	+1.04	+0.924	+0.98	+0.82	+0.35		
10.1	-2.20	+355	+296	+289	+304	+124	+0.91	+0.090	+1.20	+1.04	+0.921	+0.98	+0.82	+0.35		
15.1	-2.20	+201	+242	+208	+288	+105	+0.91	+0.092	+1.20	+1.04	+0.918	+0.98	+0.82	+0.35		
19.6	-2.20	+232	+159	+137	+163	+163	+0.95	+0.082	+1.20	+1.04	+0.915	+0.98	+0.82	+0.35		
29.5	-2.20	+206	+131	+110	+100	+0.97	+0.071	+0.067	+1.20	+1.04	+0.912	+0.98	+0.82	+0.35		
34.5	-2.20	+175	+102	+087	+054	+0.027	+0.039	+0.250	+1.20	+1.04	+0.909	+0.98	+0.82	+0.35		
39.5	-2.20	+140	+077	+065	+015	+0.024	+0.052	+0.254	+1.20	+1.04	+0.906	+0.98	+0.82	+0.35		
44.5	-2.20	+100	+049	+046	+016	+0.026	+0.043	+0.251	+1.20	+1.04	+0.903	+0.98	+0.82	+0.35		
54.5	-2.20	+090	+024	+027	+050	+0.062	+0.175	+0.295	+1.20	+1.04	+0.900	+0.98	+0.82	+0.35		
59.5	-2.20	+058	+030	+014	+071	+0.074	+0.209	+0.302	+1.20	+1.04	+0.897	+0.98	+0.82	+0.35		
64.5	-2.20	+054	+005	+006	+080	+0.078	+0.226	+0.311	+1.20	+1.04	+0.894	+0.98	+0.82	+0.35		
69.5	-2.20	+012	+003	+010	+088	+0.091	+0.232	+0.311	+1.20	+1.04	+0.891	+0.98	+0.82	+0.35		
74.6	-2.20	+007	+011	+050	+062	+0.087	+0.231	+0.292	+1.20	+1.04	+0.888	+0.98	+0.82	+0.35		
79.6	-2.20	+010	+014	+055	+062	+0.093	+0.214	+0.263	+1.20	+1.04	+0.885	+0.98	+0.82	+0.35		
84.6	-2.20	+007	+009	+039	+057	+0.085	+0.194	+0.226	+1.20	+1.04	+0.882	+0.98	+0.82	+0.35		
89.7	-2.20	+004	+012	+051	+048	+0.093	+0.155	+0.188	+1.20	+1.04	+0.879	+0.98	+0.82	+0.35		
94.6	-2.20	+013	+024	+065	+048	+0.082	+0.177	+0.134	+1.20	+1.04	+0.876	+0.98	+0.82	+0.35		

TABLE II. - LEADING-EDGE CHORD-EXTENSION AND SPOILER-SLOT-DEFLECTOR

Percent chord	Pressure coefficient													
	0.135b/2	0.25b/2	0.40b/2	0.55b/2	0.70b/2	0.85b/2	0.95b/2	0.135b/2	0.25b/2	0.40b/2	0.55b/2	0.70b/2		
	M = 0.60	a = 0.25°	M = 0.60 a = 4.21°											
Upper surface														
-15.0	+238	+475	+480	+482	+484	+485	+487	+269	+268	+267	+266	+265	+267	+0.94
-13.8	+273	+639	+508	+197	+122	+116	+110	+132	+132	+132	+132	+132	+132	+0.813
-12.5	+127	+002	+049	+125	+083	+098	+039	+072	+074	+021	+021	+021	+021	+0.499
-10.0	+014	+002	+002	+002	+002	+002	+002	+014	+014	+014	+014	+014	+014	+0.2
-7.5	+014	+002	+002	+002	+002	+002	+002	+014	+014	+014	+014	+014	+014	+0.02
-5.0	+014	+002	+002	+002	+002	+002	+002	+014	+014	+014	+014	+014	+014	+0.002
0.0	+028	+028	+028	+028	+028	+028	+028	+028	+028	+028	+028	+028	+028	+0.000
1.2	+273	+639	+508	+197	+122	+116	+110	+132	+132	+132	+132	+132	+132	+0.813
2.4	+127	+002	+049	+125	+083	+098	+039	+072	+074	+021	+021	+021	+021	+0.499
5.0	+014	+002	+002	+002	+002	+002	+002	+014	+014	+014	+014	+014	+014	+0.2
7.5	+014	+002	+002	+002	+002	+002	+002	+014	+014	+014	+014	+014	+014	+0.02
10.0	+014	+002	+002	+002	+002	+002	+002	+014	+014	+014	+014	+014	+014	+0.002
12.5	+014	+002	+002	+002	+002	+002	+002	+014	+014	+014	+014	+014	+014	+0.000
15.0	+014	+002	+002	+002	+002	+002	+002	+014	+014	+014	+014	+014	+014	+0.000
19.6	+015	+012	+040	+069	+067	+071	+002	+210	+212	+134	+134	+134	+134	+0.249
24.5	+027	+014	+061	+070	+091	+090	+021	+203	+153	+153	+153	+153	+153	+0.235
29.5	+006	+029	+101	+095	+123	+106	+106	+123	+123	+123	+123	+123	+123	+0.224
34.5	+014	+002	+002	+002	+002	+002	+002	+014	+014	+014	+014	+014	+014	+0.218
39.5	+014	+002	+002	+002	+002	+002	+002	+014	+014	+014	+014	+014	+014	+0.218
44.5	+016	+167	+202	+186	+199	+165	+165	+202	+202	+135	+135	+135	+135	+0.193
49.5	+049	+252	+258	+236	+242	+199	+022	+200	+200	+135	+135	+135	+135	+0.177
54.5	+123	+361	+320	+313	+297	+249	+020	+200	+200	+135	+135	+135	+135	+0.167
59.5	+238	+395	+352	+353	+352	+352	+048	+147	+130	+187	+193	+193	+193	+0.158
64.5	+122	+322	+326	+351	+352	+240	+097	+313	+076	+161	+194	+194	+194	+0.140
69.5	+028	+028	+028	+028	+028	+028	+100	+009	+009	+009	+009	+009	+009	+0.078
74.5	+902	+763	+552	+433	+345	+275	+110	+867	+782	+882	+648	+376	+283	+0.111
79.5	+861	+729	+580	+416	+361	+267	+110	+866	+780	+770	+720	+380	+285	+0.143
84.6	+749	+661	+410	+364	+324	+252	+110	+865	+771	+603	+479	+373	+263	+0.157
89.6	+847	+707	+537	+479	+394	+252	+112	+707	+712	+637	+478	+377	+292	+0.159
94.6	+636	+658	+586	+486	+345	+239	+103	+649	+644	+594	+481	+374	+247	+0.152
Lower surface														
-13.8	+102	+102	+102	+102	+102	+102	+102	+127	+183	+213	+213	+213	+213	+0.31
-12.5	+078	+078	+078	+078	+078	+078	+078	+120	+120	+120	+120	+120	+120	+0.244
-10.0	+082	+082	+082	+082	+082	+082	+082	+082	+090	+111	+111	+111	+111	+0.169
-7.5	+098	+098	+098	+098	+098	+098	+098	+098	+098	+111	+111	+111	+111	+0.116
0.0	+109	+109	+109	+109	+109	+109	+109	+109	+109	+109	+109	+109	+109	+0.015
1.3	+165	+062	+102	+157	+157	+102	+073	+254	+219	+218	+230	+074	+078	+0.016
2.6	+113	+067	+102	+156	+156	+102	+073	+254	+219	+218	+230	+074	+078	+0.016
5.0	+062	+054	+081	+086	+086	+086	+086	+208	+176	+165	+279	+050	+044	+0.020
7.5	+007	+073	+072	+094	+095	+081	+071	+159	+159	+159	+159	+042	+044	+0.044
10.1	+027	+078	+089	+104	+101	+079	+061	+125	+125	+125	+125	+079	+087	+0.044
15.1	+029	+078	+089	+104	+101	+079	+061	+125	+125	+125	+125	+080	+086	+0.011
19.6	+054	+082	+082	+082	+082	+082	+082	+082	+082	+082	+082	+082	+082	+0.003
24.5	+045	+082	+082	+082	+082	+082	+082	+082	+082	+082	+082	+082	+082	+0.000
29.5	+103	+095	+089	+023	+001	+000	+043	+023	+023	+023	+023	+023	+023	+0.000
34.5	+074	+104	+079	+073	+033	+009	+014	+014	+014	+014	+014	+014	+014	+0.000
39.5	+093	+090	+062	+045	+023	+006	+006	+005	+005	+005	+005	+005	+005	+0.000
44.5	+096	+070	+031	+012	+001	+001	+001	+001	+001	+001	+001	+001	+001	+0.000
49.5	+102	+035	+010	+002	+001	+001	+001	+001	+001	+001	+001	+001	+001	+0.000
54.5	+102	+035	+010	+002	+001	+001	+001	+001	+001	+001	+001	+001	+001	+0.000
59.5	+102	+035	+010	+002	+001	+001	+001	+001	+001	+001	+001	+001	+001	+0.000
64.5	+102	+035	+010	+002	+001	+001	+001	+001	+001	+001	+001	+001	+001	+0.000
69.5	+340	+900	+640	+439	+316	+215	+090	+190	+190	+190	+190	+190	+190	+0.000
74.6	+545	+790	+540	+356	+256	+149	+106	+446	+446	+446	+446	+446	+446	+0.000
79.6	+894	+649	+447	+356	+294	+186	+107	+446	+446	+446	+446	+446	+446	+0.000
84.6	+894	+147	+476	+515	+229	+179	+107	+446	+446	+446	+446	+446	+446	+0.000
89.6	+329	+1036	+446	+451	+353	+241	+108	+446	+446	+446	+446	+446	+446	+0.000
94.6	+095	+172	+428	+557	+345	+239	+074	+446	+446	+446	+446	+446	+446	+0.000
Upper surface														
-15.0	+177	+364	+224	+660	+344	+315	+265	+129	+129	+705	+626	+1209	+1349	+0.53
-13.8	+1077	+731	+1053	+1052	+1220	+1357	+985	+122	+122	+122	+122	+122	+122	+0.53
-12.5	+460	+671	+102	+102	+122	+1357	+985	+122	+122	+122	+122	+122	+122	+0.53
-10.0	+104	+104	+104	+104	+122	+1357	+985	+122	+122	+122	+122	+122	+122	+0.53
-7.5	+328	+572	+503	+503	+122	+1357	+985	+122	+122	+122	+122	+122	+122	+0.53
0.0	+177	+364	+224	+660	+344	+315	+265	+129	+129	+705	+626	+1209	+1349	+0.53
1.2	+072	+072	+072	+072	+122	+1357	+985	+122	+122	+122	+122	+122	+122	+0.53
2.4	+339	+980	+671	+671	+122	+1357	+985	+122	+122	+122	+122	+122	+122	+0.53
5.0	+104	+104	+104	+104	+122	+1357	+985	+122	+122	+122	+122	+122	+122	+0.53
7.5	+328	+572	+503	+503	+122	+1357	+985	+122	+122	+122	+122	+122	+122	+0.53
10.0	+353	+495	+474	+397	+123	+205	+199	+122	+122	+122	+122	+122	+122	+0.53
15.0	+327	+387	+358	+279	+125	+156	+156	+122	+122	+122	+122	+122	+122	+0.53
19.6	+303	+320	+280	+202	+109	+109	+109	+122	+122	+122	+122	+122	+122	+0.53
24.5	+286	+344	+286	+206	+109	+109	+109	+122	+122	+122	+122	+122	+122	+0.53
29.5	+185	+130	+094	+008	+108	+108	+108	+122	+122	+122	+122	+122	+122	+0.53
34.5	+122	+077	+051	+001	+110	+110	+110	+122	+122	+122	+122	+122	+122	+0.53
39.5	+375	+477	+487	+482	+154	+156	+028	+121	+121	+121	+121	+121	+121	+0.53
44.5	+355	+430	+405	+426	+360	+360	+028	+121	+121	+121	+121	+121	+121	+0.53
49.5	+359	+323	+327	+327	+327	+327	+028	+121	+121	+121	+121	+121	+121	+0.53
54.5	+302	+275	+264	+299	+349	+349	+028	+121	+121	+121	+121	+121	+121	+0.53
59.5	+688	+677	+566	+436	+354	+237	+028	+121	+121	+121	+121	+121	+121	+0.53
64.5	+681	+626	+547	+446	+357	+226	+028	+121	+121	+121	+121	+121	+121	+0.53
69.5	+028	+028	+028	+028	+028	+028	+028	+121	+121	+121	+121	+121	+121	+0.53
74.6	+823	+724	+410	+351	+285	+248	+028	+121	+121	+121	+121	+121	+121	+0.53
79.6	+803	+700	+327	+384	+244	+244	+028	+121	+121	+121	+121	+121	+121	+0.53
84.6	+847	+638	+532	+423	+326	+261	+028	+121	+121	+121	+121	+121	+121	+0.53
89.6	+194	+947	+819	+534	+345	+235	+028	+121	+121	+121	+121	+121	+121	+0.53
94.6	+049	+449	+499	+599	+545	+345	+028	+121	+121	+121	+121	+121	+121	+0.53
Lower surface														
-13.8	+102	+627	+447	+180										

TABLE II. - LEADING-EDGE CHORD-EXTENSION AND SPOILER-SLOT-DEFLECTOR - Continued

Per- cent chord	Pressure coefficient													
	0.135b/2	0.25b/2	0.40b/2	0.55b/2	0.70b/2	0.85b/2	0.95b/2	0.135b/2	0.25b/2	0.40b/2	0.55b/2	0.70b/2	0.85b/2	0.95b/2
	M = 0.60	a = 12.47°	M = 0.60	a = 16.24°										
Upper surface														
-15.0	-0.028	-1.823	-1.180	-0.961	-1.708	-1.153	-0.797	-1.948	-1.507	-1.450	-1.450	-1.450	-1.450	
-13.8	-0.838	-1.747	-1.010	-0.752	-1.335	-1.045	-0.789	-1.881	-1.427	-1.372	-1.279	-1.279	-1.279	
-12.5	-1.036	-1.740	-1.014	-0.756	-1.434	-1.082	-0.788	-1.882	-1.428	-1.380	-1.228	-1.228	-1.228	
-10.0	-1.021	-1.760	-1.011	-0.758	-1.203	-1.026	-0.784	-1.884	-1.431	-1.385	-1.276	-1.276	-1.276	
-7.5	-1.155	-1.795	-1.003	-0.801	-1.247	-1.143	-0.787	-1.891	-1.432	-1.381	-1.354	-1.354	-1.354	
-5.0	-1.021	-1.790	-1.011	-0.768	-1.227	-1.115	-0.803	-1.915	-1.433	-1.370	-1.345	-1.345	-1.345	
0.0	-0.404	-1.109	-1.044	-0.750	-1.208	-1.005	-0.766	-1.920	-1.437	-1.371	-1.444	-1.444	-1.444	
2.5	-0.350	-0.055	-0.901	-0.727	-1.257	-1.056	-0.576	-1.949	-1.438	-1.372	-1.428	-1.428	-1.428	
4.9	-0.143	-0.312	-0.902	-0.728	-1.257	-1.057	-0.577	-1.950	-1.439	-1.373	-1.429	-1.429	-1.429	
54.5	-1.145	-1.444	-0.517	-0.628	-1.350	-0.998	-0.384	-2.043	-1.442	-1.379	-1.467	-1.467	-1.467	
59.5	-0.010	-1.198	-1.397	-0.555	-1.384	-1.148	-0.340	-2.049	-1.446	-1.383	-1.441	-1.441	-1.441	
64.5	-0.096	-1.183	-1.295	-0.476	-1.390	-1.158	-0.320	-2.053	-1.453	-1.387	-1.443	-1.443	-1.443	
69.6	-0.020	-1.184	-1.296	-0.477	-1.391	-1.159	-0.321	-2.054	-1.454	-1.388	-1.444	-1.444	-1.444	
74.5	-0.024	-1.184	-1.297	-0.478	-1.392	-1.160	-0.322	-2.055	-1.455	-1.389	-1.445	-1.445	-1.445	
79.5	-0.710	-1.502	-1.520	-1.340	-1.293	-1.255	-0.556	-2.056	-1.456	-1.391	-1.522	-1.522	-1.522	
84.6	-0.668	-1.616	-1.585	-1.490	-1.336	-1.270	-0.556	-2.057	-1.457	-1.392	-1.523	-1.523	-1.523	
89.6	-0.629	-1.599	-1.606	-1.490	-1.362	-1.273	-0.522	-2.058	-1.458	-1.393	-1.523	-1.523	-1.523	
94.6	-0.623	-1.564	-1.487	-1.462	-1.358	-1.270	-0.513	-2.059	-1.459	-1.397	-1.524	-1.524	-1.524	
Upper surface														
-13.8	-0.404	-1.472	-1.426	-1.325	-1.248	-1.198	-0.508	-2.070	-1.460	-1.397	-1.531	-1.531	-1.531	
-12.5	-0.404	-1.472	-1.426	-1.325	-1.248	-1.198	-0.508	-2.070	-1.460	-1.397	-1.531	-1.531	-1.531	
-10.0	-0.404	-1.472	-1.426	-1.325	-1.248	-1.198	-0.508	-2.070	-1.460	-1.397	-1.531	-1.531	-1.531	
-7.5	-0.404	-1.472	-1.426	-1.325	-1.248	-1.198	-0.508	-2.070	-1.460	-1.397	-1.531	-1.531	-1.531	
0.0	-0.404	-1.472	-1.426	-1.325	-1.248	-1.198	-0.508	-2.070	-1.460	-1.397	-1.531	-1.531	-1.531	
1.3	+0.387	+0.668	+0.573	+0.503	+0.497	+0.395	+0.355	+0.270	+0.389	+0.542	+0.463	+0.433	+0.309	
2.6	+0.318	+0.544	+0.537	+0.549	+0.531	+0.490	+0.443	+0.289	+0.541	+0.587	+0.545	+0.442	+0.440	
5.0	+0.474	+0.534	+0.514	+0.532	+0.517	+0.478	+0.424	+0.314	+0.542	+0.587	+0.545	+0.442	+0.438	
7.6	+0.524	+0.499	+0.462	+0.481	+0.462	+0.427	+0.376	+0.276	+0.543	+0.587	+0.545	+0.442	+0.438	
10.1	+0.524	+0.499	+0.462	+0.481	+0.462	+0.427	+0.376	+0.276	+0.543	+0.587	+0.545	+0.442	+0.438	
15.1	+0.476	+0.387	+0.345	+0.382	+0.246	+0.206	+0.054	+0.580	+0.470	+0.349	+0.442	+0.302	+0.078	
19.6	+0.415	+0.332	+0.332	+0.342	+0.230	+0.236	+0.108	+0.514	+0.415	+0.300	+0.398	+0.204	+0.127	
24.5	+0.361	+0.292	+0.282	+0.295	+0.221	+0.170	+0.042	+0.462	+0.371	+0.346	+0.273	+0.221	+0.056	
29.5	+0.320	+0.260	+0.253	+0.251	+0.203	+0.154	+0.028	+0.418	+0.317	+0.300	+0.255	+0.200	+0.032	
34.5	+0.279	+0.220	+0.216	+0.206	+0.150	+0.130	+0.000	+0.375	+0.304	+0.264	+0.199	+0.169	+0.005	
39.5	+0.233	+0.193	+0.193	+0.193	+0.137	+0.137	+0.000	+0.335	+0.305	+0.264	+0.199	+0.169	+0.005	
44.5	+0.216	+0.193	+0.194	+0.190	+0.137	+0.137	+0.000	+0.335	+0.305	+0.264	+0.199	+0.169	+0.005	
49.5	+0.193	+0.193	+0.193	+0.184	+0.136	+0.106	+0.000	+0.278	+0.247	+0.227	+0.206	+0.182	+0.075	
54.5	+0.183	+0.229	+0.218	+0.215	+0.155	+0.102	+0.000	+0.261	+0.270	+0.232	+0.223	+0.161	+0.099	
59.5	+0.223	+0.269	+0.263	+0.261	+0.205	+0.104	+0.000	+0.285	+0.295	+0.270	+0.264	+0.204	+0.124	
64.5	+0.291	+0.301	+0.336	+0.299	+0.202	+0.105	+0.000	+0.315	+0.309	+0.299	+0.294	+0.206	+0.131	
69.5	+0.584	+0.584	+0.584	+0.584	+0.584	+0.584	+0.584	+0.584	+0.584	+0.584	+0.584	+0.584	+0.584	
74.6	+0.411	-0.610	-0.566	-0.405	-0.172	-0.245	-0.245	-0.245	-0.749	-0.667	-0.521	-0.224	-0.161	
79.6	-0.584	-0.936	-0.588	-0.492	-0.390	-0.324	-0.136	-0.455	-0.708	-0.614	-0.451	-0.364	-0.175	
84.6	-0.150	-1.068	-0.575	-0.490	-0.254	-0.311	-0.139	-0.075	-1.014	-0.702	-0.602	-0.282	-0.180	
89.7	-0.001	-0.724	-0.259	-0.166	-0.307	-0.307	-0.139	-0.154	-0.597	-0.485	-0.345	-0.249	-0.129	
94.6	-0.032	-0.261	-0.522	-0.537	-0.596	-0.265	-0.165	-0.707	-1.111	-0.585	-0.432	-0.233	-0.119	
Upper surface														
-15.0	-0.243	-1.076	-0.990	-0.777	-0.691	-0.667	-0.562	-0.261	-0.508	-0.534	-0.544	-0.075	-0.003	
-13.8	-0.972	-1.057	-0.932	-0.759	-0.690	-0.670	-0.666	-0.151	-0.207	-0.308	-0.110	-0.124	-0.108	
-12.5	-1.139	-1.054	-0.924	-0.759	-0.706	-0.670	-0.657	-0.151	-0.207	-0.308	-0.110	-0.087	-0.043	
-10.0	-1.034	-1.048	-0.920	-0.754	-0.701	-0.668	-0.575	-0.151	-0.207	-0.308	-0.110	-0.061	-0.024	
-7.5	-1.113	-1.049	-0.920	-0.752	-0.701	-0.668	-0.575	-0.151	-0.207	-0.308	-0.110	-0.053	-0.004	
0.0	-0.590	-0.590	-0.590	-0.590	-0.590	-0.590	-0.590	-0.151	-0.207	-0.308	-0.110	-0.053	-0.004	
1.3	-0.243	-1.076	-0.990	-0.777	-0.691	-0.667	-0.562	-0.261	-0.508	-0.534	-0.544	-0.075	-0.003	
2.5	-0.972	-1.057	-0.932	-0.759	-0.706	-0.670	-0.666	-0.151	-0.207	-0.308	-0.110	-0.124	-0.108	
5.0	-1.034	-1.048	-0.920	-0.754	-0.701	-0.668	-0.575	-0.151	-0.207	-0.308	-0.110	-0.087	-0.043	
7.6	-1.113	-1.049	-0.920	-0.752	-0.701	-0.668	-0.575	-0.151	-0.207	-0.308	-0.110	-0.061	-0.024	
10.1	-1.034	-1.049	-0.920	-0.752	-0.701	-0.668	-0.575	-0.151	-0.207	-0.308	-0.110	-0.053	-0.004	
15.1	-0.976	-0.955	-0.964	-0.855	-0.738	-0.690	-0.603	-0.154	-0.207	-0.308	-0.110	-0.043	-0.004	
19.6	-0.162	-0.055	-0.894	-0.749	-0.707	-0.646	-0.588	-0.159	-0.207	-0.308	-0.110	-0.056	-0.004	
24.5	-0.105	-0.146	-0.878	-0.750	-0.705	-0.641	-0.582	-0.154	-0.207	-0.308	-0.110	-0.056	-0.004	
29.5	-0.064	-0.146	-0.878	-0.750	-0.705	-0.641	-0.582	-0.154	-0.207	-0.308	-0.110	-0.056	-0.004	
34.5	-0.064	-0.146	-0.878	-0.750	-0.705	-0.641	-0.582	-0.154	-0.207	-0.308	-0.110	-0.056	-0.004	
39.5	-0.064	-0.146	-0.878	-0.750	-0.705	-0.641	-0.582	-0.154	-0.207	-0.308	-0.110	-0.056	-0.004	
44.5	-0.064	-0.146	-0.878	-0.750	-0.705	-0.641	-0.582	-0.154	-0.207	-0.308	-0.110	-0.056	-0.004	
49.5	-0.064	-0.146	-0.878	-0.750	-0.705	-0.641	-0.582	-0.154	-0.207	-0.308	-0.110	-0.056	-0.004	
54.5	-0.064	-0.146	-0.878	-0.750	-0.705	-0.641	-0.582	-0.154	-0.207	-0.308	-0.110	-0.056	-0.004	
59.5	-0.064	-0.146	-0.878	-0.750	-0.705	-0.641	-0.582	-0.154	-0.207	-0.308	-0.110	-0.056	-0.004	
64.5	-0.064	-0.146	-0.878	-0.750	-0.705	-0.641	-0.582	-0.154	-0.207	-0.308	-0.110	-0.056	-0.004	
69.5	-0.064	-0.146	-0.878	-0.750	-0.705	-0.641	-0.582	-0.154	-0.207	-0.308	-0.110	-0.056	-0.004	
74.6	-0.064	-0.146	-0.878	-0.750	-0.705	-0.641	-0.582	-0.154	-0.207	-0.308	-0.110	-0.056	-0.004	
79.6	-0.064	-0.146	-0.878	-0.750	-0.705	-0.641	-0.582	-0.154	-0.207	-0.308	-0.110	-0.056	-0.004	
84.6	-0.064	-0.146	-0.878	-0.750	-0.705	-0.641	-0.582	-0.154	-0.207	-0.308	-0.110	-0.056	-0.004	
89.7	-0.064	-0.146	-0.878	-0.750	-0.705	-0.641	-0.582	-0.154	-0.207	-0.308	-0.110	-0.056	-0.004	
94.6	-0.064	-0.146	-0.878	-0.750	-0.705	-0.641	-0.582	-0.154	-0.207	-0.308	-0.110	-0.056	-0.004	
Upper surface														
-13.8	-0.243	-1.076	-0.990	-0.777	-0.691	-0.667	-0.562	-0.261	-0.508	-0.534	-0.544	-0.075	-0.003	
-12.5	-0.972	-1.057	-0.932	-0.759	-0.706	-0.670	-0.666	-0.151	-0.207	-0.308	-0.110	-0.124	-0.108	
-10.0	-1.139	-1.054	-0.924											

TABLE II. - LEADING-EDGE CHORD-EXTENSION AND SPOILER-SLOT-DEFLECTOR - Continued

Percent chord		Pressure coefficient												
		0.135b/2	0.25b/2	0.40b/2	0.55b/2	0.70b/2	0.85b/2	0.95b/2	0.135b/2	0.25b/2	0.40b/2	0.55b/2	0.70b/2	
$M = 0.85 \quad \alpha = 16.85^\circ$														
-15.0	-0.080	+1.06 ^a	+1.12 ^a	+0.95 ^a	+1.26 ^a	+1.27 ^a	+1.03 ^a	+1.03 ^a	+0.90 ^a	+0.96 ^a	+0.97 ^a	+1.71 ^a	+0.71 ^a	+0.17 ^a
-13.8	-0.420	+1.32 ^a	+0.98 ^a	+0.57 ^a	+1.70 ^a	+1.37 ^a	+1.03 ^a	+1.03 ^a	+0.94 ^a	+0.93 ^a	+0.93 ^a	+0.98 ^a	+0.82 ^a	+0.17 ^a
-12.5	-0.773	+1.33 ^a	+0.95 ^a	+0.50 ^a	+1.78 ^a	+1.36 ^a	+1.01 ^a	+1.01 ^a	+0.92 ^a	+0.92 ^a	+0.92 ^a	+0.97 ^a	+0.83 ^a	+0.17 ^a
-10.0	-1.053	+1.28 ^a	+0.99 ^a	+0.61 ^a	+1.45 ^a	+1.24 ^a	+1.04 ^a	+1.04 ^a	+0.95 ^a	+0.95 ^a	+0.95 ^a	+0.99 ^a	+0.82 ^a	+0.17 ^a
-7.5	-1.174	+1.24 ^a	+0.95 ^a	+0.56 ^a	+1.82 ^a	+1.36 ^a	+1.01 ^a	+1.01 ^a	+0.92 ^a	+0.92 ^a	+0.92 ^a	+0.97 ^a	+0.83 ^a	+0.17 ^a
-5.0	-1.285	+1.22 ^a	+0.95 ^a	+0.55 ^a	+1.34 ^a	+1.37 ^a	+0.95 ^a	+0.95 ^a	+0.91 ^a	+0.90 ^a	+0.90 ^a	+0.95 ^a	+0.84 ^a	+0.17 ^a
0.0	-1.084	+1.23 ^a	+0.94 ^a	+0.57 ^a	+1.24 ^a	+1.41 ^a	+1.02 ^a	+1.02 ^a	+0.93 ^a	+0.94 ^a	+0.94 ^a	+0.98 ^a	+0.84 ^a	+0.17 ^a
1.2	-0.420	+1.32 ^a	+0.98 ^a	+0.57 ^a	+1.70 ^a	+1.37 ^a	+1.03 ^a	+1.03 ^a	+0.94 ^a	+0.93 ^a	+0.93 ^a	+0.98 ^a	+0.82 ^a	+0.17 ^a
2.4	-0.773	+1.33 ^a	+0.95 ^a	+0.50 ^a	+1.78 ^a	+1.36 ^a	+1.01 ^a	+1.01 ^a	+0.92 ^a	+0.92 ^a	+0.92 ^a	+0.97 ^a	+0.83 ^a	+0.17 ^a
5.0	-1.053	+1.28 ^a	+0.99 ^a	+0.61 ^a	+1.45 ^a	+1.24 ^a	+1.04 ^a	+1.04 ^a	+0.95 ^a	+0.95 ^a	+0.95 ^a	+0.99 ^a	+0.82 ^a	+0.17 ^a
7.5	-1.174	+1.24 ^a	+0.95 ^a	+0.56 ^a	+1.82 ^a	+1.36 ^a	+1.01 ^a	+1.01 ^a	+0.92 ^a	+0.92 ^a	+0.92 ^a	+0.97 ^a	+0.83 ^a	+0.17 ^a
10.0	-1.285	+1.22 ^a	+0.95 ^a	+0.55 ^a	+1.34 ^a	+1.37 ^a	+0.95 ^a	+0.95 ^a	+0.91 ^a	+0.90 ^a	+0.90 ^a	+0.95 ^a	+0.84 ^a	+0.17 ^a
12.5	-1.084	+1.23 ^a	+0.94 ^a	+0.57 ^a	+1.24 ^a	+1.41 ^a	+1.02 ^a	+1.02 ^a	+0.93 ^a	+0.94 ^a	+0.94 ^a	+0.98 ^a	+0.84 ^a	+0.17 ^a
15.0	-0.420	+1.32 ^a	+0.98 ^a	+0.57 ^a	+1.70 ^a	+1.37 ^a	+1.03 ^a	+1.03 ^a	+0.94 ^a	+0.93 ^a	+0.93 ^a	+0.98 ^a	+0.82 ^a	+0.17 ^a
19.6	-0.773	+1.22 ^a	+0.96 ^a	+0.53 ^a	+1.52 ^a	+1.45 ^a	+0.95 ^a	+0.95 ^a	+0.91 ^a	+0.91 ^a	+0.91 ^a	+0.96 ^a	+0.84 ^a	+0.17 ^a
24.5	-1.197	+1.19 ^a	+0.87 ^a	+0.59 ^a	+1.58 ^a	+1.45 ^a	+0.97 ^a	+0.97 ^a	+0.93 ^a	+0.93 ^a	+0.93 ^a	+0.98 ^a	+0.82 ^a	+0.17 ^a
34.5	-0.795	+1.16 ^a	+0.84 ^a	+0.55 ^a	+1.64 ^a	+1.28 ^a	+0.97 ^a	+0.97 ^a	+0.93 ^a	+0.93 ^a	+0.93 ^a	+0.98 ^a	+0.82 ^a	+0.17 ^a
39.5	-0.490	+1.07 ^a	+0.83 ^a	+0.55 ^a	+1.50 ^a	+1.37 ^a	+0.90 ^a	+0.90 ^a	+0.86 ^a	+0.86 ^a	+0.86 ^a	+0.91 ^a	+0.78 ^a	+0.17 ^a
44.5	-0.708	+1.00 ^a	+0.80 ^a	+0.63 ^a	+1.70 ^a	+1.57 ^a	+0.83 ^a	+0.83 ^a	+0.79 ^a	+0.79 ^a	+0.79 ^a	+0.84 ^a	+0.71 ^a	+0.17 ^a
49.5	-0.655	+0.90 ^a	+0.79 ^a	+0.63 ^a	+1.79 ^a	+1.64 ^a	+0.74 ^a	+0.74 ^a	+0.70 ^a	+0.70 ^a	+0.70 ^a	+0.75 ^a	+0.62 ^a	+0.17 ^a
54.5	-0.496	+0.63 ^a	+0.74 ^a	+0.65 ^a	+1.65 ^a	+1.49 ^a	+0.99 ^a	+0.99 ^a	+0.95 ^a	+0.95 ^a	+0.95 ^a	+0.98 ^a	+0.82 ^a	+0.17 ^a
59.5	-0.770	+0.57 ^a	+0.67 ^a	+0.57 ^a	+1.62 ^a	+1.40 ^a	+0.87 ^a	+0.87 ^a	+0.83 ^a	+0.83 ^a	+0.83 ^a	+0.88 ^a	+0.75 ^a	+0.17 ^a
64.5	-0.451	+0.51 ^a	+0.57 ^a	+0.57 ^a	+1.62 ^a	+1.37 ^a	+0.84 ^a	+0.84 ^a	+0.80 ^a	+0.80 ^a	+0.80 ^a	+0.85 ^a	+0.72 ^a	+0.17 ^a
69.6	-0.010	+0.41 ^a	+0.41 ^a	+0.41 ^a	+1.56 ^a	+1.37 ^a	+0.81 ^a	+0.81 ^a	+0.77 ^a	+0.77 ^a	+0.77 ^a	+0.82 ^a	+0.69 ^a	+0.17 ^a
74.6	-0.909	+0.871 ^a	+0.81 ^a	+0.54 ^a	+1.63 ^a	+1.59 ^a	+0.85 ^a	+0.85 ^a	+0.81 ^a	+0.81 ^a	+0.81 ^a	+0.86 ^a	+0.73 ^a	+0.17 ^a
79.5	-0.292	+0.842 ^a	+0.64 ^a	+0.51 ^a	+1.57 ^a	+1.42 ^a	+0.82 ^a	+0.82 ^a	+0.78 ^a	+0.78 ^a	+0.78 ^a	+0.83 ^a	+0.70 ^a	+0.17 ^a
84.6	-0.834	+0.791 ^a	+0.59 ^a	+0.51 ^a	+1.57 ^a	+1.50 ^a	+0.84 ^a	+0.84 ^a	+0.80 ^a	+0.80 ^a	+0.80 ^a	+0.85 ^a	+0.72 ^a	+0.17 ^a
89.6	-0.724	+0.605 ^a	+0.54 ^a	+0.50 ^a	+1.63 ^a	+1.43 ^a	+0.87 ^a	+0.87 ^a	+0.83 ^a	+0.83 ^a	+0.83 ^a	+0.88 ^a	+0.75 ^a	+0.17 ^a
94.6	-0.675	+0.754 ^a	+0.64 ^a	+0.57 ^a	+1.64 ^a	+1.42 ^a	+0.84 ^a	+0.84 ^a	+0.80 ^a	+0.80 ^a	+0.80 ^a	+0.85 ^a	+0.72 ^a	+0.17 ^a
$M = 0.85 \quad \alpha = 20.96^\circ$														
-15.0	-0.080	+1.12 ^a	+0.95 ^a	+0.46 ^a	+1.26 ^a	+1.27 ^a	+1.03 ^a	+1.03 ^a	+0.90 ^a	+0.96 ^a	+0.97 ^a	+1.71 ^a	+0.71 ^a	+0.17 ^a
-13.8	-0.420	+1.32 ^a	+0.98 ^a	+0.57 ^a	+1.70 ^a	+1.37 ^a	+1.03 ^a	+1.03 ^a	+0.94 ^a	+0.93 ^a	+0.93 ^a	+0.98 ^a	+0.82 ^a	+0.17 ^a
-12.5	-0.773	+1.33 ^a	+0.95 ^a	+0.50 ^a	+1.78 ^a	+1.36 ^a	+1.01 ^a	+1.01 ^a	+0.92 ^a	+0.92 ^a	+0.92 ^a	+0.97 ^a	+0.83 ^a	+0.17 ^a
-10.0	-1.053	+1.28 ^a	+0.99 ^a	+0.61 ^a	+1.45 ^a	+1.24 ^a	+1.04 ^a	+1.04 ^a	+0.95 ^a	+0.95 ^a	+0.95 ^a	+0.99 ^a	+0.82 ^a	+0.17 ^a
-7.5	-1.174	+1.24 ^a	+0.95 ^a	+0.56 ^a	+1.82 ^a	+1.36 ^a	+1.01 ^a	+1.01 ^a	+0.92 ^a	+0.92 ^a	+0.92 ^a	+0.97 ^a	+0.83 ^a	+0.17 ^a
-5.0	-1.285	+1.22 ^a	+0.95 ^a	+0.55 ^a	+1.34 ^a	+1.37 ^a	+0.95 ^a	+0.95 ^a	+0.91 ^a	+0.90 ^a	+0.90 ^a	+0.95 ^a	+0.84 ^a	+0.17 ^a
0.0	-1.084	+1.23 ^a	+0.94 ^a	+0.57 ^a	+1.24 ^a	+1.41 ^a	+1.02 ^a	+1.02 ^a	+0.93 ^a	+0.94 ^a	+0.94 ^a	+0.98 ^a	+0.84 ^a	+0.17 ^a
1.2	-0.420	+1.32 ^a	+0.98 ^a	+0.57 ^a	+1.70 ^a	+1.37 ^a	+1.03 ^a	+1.03 ^a	+0.94 ^a	+0.93 ^a	+0.93 ^a	+0.98 ^a	+0.82 ^a	+0.17 ^a
2.4	-0.773	+1.33 ^a	+0.95 ^a	+0.50 ^a	+1.78 ^a	+1.36 ^a	+1.01 ^a	+1.01 ^a	+0.92 ^a	+0.92 ^a	+0.92 ^a	+0.97 ^a	+0.83 ^a	+0.17 ^a
5.0	-1.053	+1.28 ^a	+0.99 ^a	+0.61 ^a	+1.45 ^a	+1.24 ^a	+1.04 ^a	+1.04 ^a	+0.95 ^a	+0.95 ^a	+0.95 ^a	+0.99 ^a	+0.82 ^a	+0.17 ^a
7.5	-1.174	+1.24 ^a	+0.95 ^a	+0.56 ^a	+1.82 ^a	+1.36 ^a	+1.01 ^a	+1.01 ^a	+0.92 ^a	+0.92 ^a	+0.92 ^a	+0.97 ^a	+0.83 ^a	+0.17 ^a
10.0	-1.285	+1.22 ^a	+0.95 ^a	+0.55 ^a	+1.34 ^a	+1.37 ^a	+0.95 ^a	+0.95 ^a	+0.91 ^a	+0.90 ^a	+0.90 ^a	+0.95 ^a	+0.84 ^a	+0.17 ^a
12.5	-1.084	+1.23 ^a	+0.94 ^a	+0.57 ^a	+1.24 ^a	+1.41 ^a	+1.02 ^a	+1.02 ^a	+0.93 ^a	+0.94 ^a	+0.94 ^a	+0.98 ^a	+0.84 ^a	+0.17 ^a
15.0	-0.420	+1.32 ^a	+0.98 ^a	+0.57 ^a	+1.70 ^a	+1.37 ^a	+1.03 ^a	+1.03 ^a	+0.94 ^a	+0.93 ^a	+0.93 ^a	+0.98 ^a	+0.82 ^a	+0.17 ^a
19.6	-0.773	+1.22 ^a	+0.96 ^a	+0.53 ^a	+1.52 ^a	+1.45 ^a	+0.95 ^a	+0.95 ^a	+0.91 ^a	+0.91 ^a	+0.91 ^a	+0.96 ^a	+0.84 ^a	+0.17 ^a
24.5	-1.197	+1.19 ^a	+0.87 ^a	+0.59 ^a	+1.58 ^a	+1.45 ^a	+0.97 ^a	+0.97 ^a	+0.93 ^a	+0.93 ^a	+0.93 ^a	+0.98 ^a	+0.82 ^a	+0.17 ^a
34.5	-0.795	+1.16 ^a	+0.84 ^a	+0.55 ^a	+1.64 ^a	+1.28 ^a	+0.97 ^a	+0.97 ^a	+0.93 ^a	+0.93 ^a	+0.93 ^a	+0.98 ^a	+0.82 ^a	+0.17 ^a
39.5	-0.490	+1.07 ^a	+0.83 ^a	+0.55 ^a	+1.50 ^a	+1.37 ^a	+0.90 ^a	+0.90 ^a	+0.86 ^a	+0.86 ^a	+0.86 ^a	+0.91 ^a	+0.78 ^a	+0.17 ^a
44.5	-0.708	+1.00 ^a	+0.80 ^a	+0.63 ^a	+1.70 ^a	+1.57 ^a	+0.83 ^a	+0.83 ^a	+0.79 ^a	+0.79 ^a	+0.79 ^a	+0.84 ^a	+0.71 ^a	+0.17 ^a
49.5	-0.655	+0.74 ^a	+0.69 ^a	+0.52 ^a	+1.45 ^a	+1.25 ^a	+0.84 ^a	+0.84 ^a	+0.80 ^a	+0.80 ^a	+0.80 ^a	+0.85 ^a	+0.72 ^a	+0.17 ^a
54.5	-0.695	+0.63 ^a	+0.62 ^a	+0.65 ^a	+1.65 ^a	+1.32 ^a	+0.72 ^a	+0.72 ^a	+0.68 ^a	+0.68 ^a	+0.68 ^a	+0.73 ^a	+0.60 ^a	+0.17 ^a
59.5	-0.686	+0.58 ^a	+0.58 ^a	+0.58 ^a	+1.62 ^a	+1.28 ^a	+0.73 ^a	+0.73 ^a	+0.69 ^a	+0.69 ^a	+0.69 ^a	+0.74 ^a	+0.59 ^a	+0.17 ^a
64.5	-0.647	+0.48 ^a	+0.48 ^a	+0.48 ^a	+1.62 ^a	+1.25 ^a	+0.70 ^a	+0.70 ^a	+0.66 ^a	+0.66 ^a	+0.66 ^a	+0.71 ^a	+0.58 ^a	+0.17 ^a
69.5	-0.579	+0.38 ^a	+0.38 ^a	+0.38 ^a	+1.62 ^a	+1.21 ^a	+0.67 ^a	+0.67 ^a	+0.63 ^a	+0.63 ^a	+0.63 ^a	+0.68 ^a	+0.55 ^a	+0.17 ^a
74.6	-1.000	+0.10 ^a	+0.47 ^a	+0.26 ^a	+1.22 ^a	+1.21 ^a	+0.76 ^a	+0.76 ^a	+0.71 ^a	+0.71 ^a	+0.71 ^a	+0.76 ^a	+0.63 ^a	+0.17 ^a
79.6	-0.767	+0.93 ^a	+0.84 ^a	+0.55 ^a	+1.59 ^a	+1.45 ^a	+0.79 ^a	+0.79 ^a	+0.75 ^a	+0.75 ^a	+0.75 ^a	+0.80 ^a	+0.67 ^a	+0.17 ^a
84.6	-0.444	+0.86 ^a	+0.67 ^a	+0.56 ^a	+1.2									

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TABLE II. - LEADING-EDGE CHORD-EXTENSION AND SPOILER-SLOT-DEFLECTOR - Continued

Percent chord	Pressure coefficient													
	0.135b/2	0.25b/2	0.40b/2	0.55b/2	0.70b/2	0.85b/2	0.95b/2	0.135b/2	0.25b/2	0.40b/2	0.55b/2	0.70b/2	0.85b/2	0.95b/2
	M = 0.90	a = 6.18°	M = 0.90	a = 8.23°										
Upper surface														
-15.0														
-13.8														
-12.5														
-10.0														
-7.5														
-5.0														
0.0	+281	+111	+035	-131	-574	+668	+451	+282	+078	+180	+410	+732	+954	
1.2	+148	+142	+229	-1020	-813	+670	+1325	+1432	+805	+990	+566	+503	+503	
2.4	+173	+079	-1182	-813	+1066	+949	+664	+397	+125	+357	+034	+556	+485	
5.0	+305	+715	+089	+630	+431	+552	+378	+397	+125	+357	+034	+556	+485	
7.5	+287	+594	+898	+557	+1066	+949	+664	+397	+125	+357	+034	+556	+485	
10.0	+197	+457	+457	+328	+328	+344	+305	+443	+902	+244	+996	+412	+947	+486
12.5	+314	+513	+373	+328	+194	+186	+241	+445	+712	+219	+347	+333	+876	+550
15.0	+318	+461	+207	+248	+124	+105	+205	+430	+651	+749	+355	+258	+639	+538
17.5	+335	+380	+409	+191	+075	+063	+173	+450	+580	+375	+362	+194	+364	+541
20.0	+304	+213	+004	+161	+040	+002	+141	+408	+492	+022	+347	+151	+061	+525
22.5	+304	+049	+049	+033	+033	+033	+143	+408	+492	+022	+347	+151	+061	+525
25.0	+298	+015	+088	+105	+026	+081	+115	+115	+165	+208	+126	+011	+499	+525
27.5	+228	+135	+117	+071	+038	+115	+117	+437	+058	+080	+293	+109	+032	+444
30.0	+098	+248	+132	+040	+064	+144	+137	+254	+161	+083	+282	+093	+057	+413
32.5	+031	+316	+130	+012	+092	+163	+166	+029	+221	+073	+250	+076	+090	+372
35.0	+296	+120	+002	+119	+151	+151	+151	+143	+200	+056	+221	+052	+104	+338
37.5	+349	+150	+013	+154	+109	+222	+150	+150	+150	+150	+150	+096	+150	+275
40.0	+006													
42.5	+845	+788	+625	+495	+382	+239	+831	+777	+417	+475	+371	+322	+288	
45.0	+842	+770	+624	+492	+389	+322	+234	+826	+763	+417	+475	+380	+321	+263
47.5	+846	+750	+624	+492	+389	+322	+234	+744	+764	+417	+477	+387	+317	+265
50.0	+712	+712	+617	+495	+397	+316	+231	+709	+709	+419	+477	+387	+326	+269
52.5	+693	+706	+603	+491	+400	+309	+211	+699	+702	+590	+468	+392	+300	+214
55.0														
57.5														
60.0														
62.5														
65.0														
67.5														
70.0														
72.5														
75.0														
77.5														
80.0														
82.5														
85.0														
87.5														
90.0														
Upper surface														
1.3	+407	+491	+481	+521	+419	+543	+540	+545	+545	+545	+545	+545	+545	+545
2.0	+397	+411	+411	+412	+412	+412	+412	+412	+412	+412	+412	+412	+412	+412
5.0	+391	+344	+356	+391	+140	+162	+002	+469	+414	+416	+452	+220	+212	+049
7.6	+349	+295	+303	+339	+140	+162	+002	+435	+378	+363	+396	+157	+001	
10.1	+302	+270	+289	+307	+137	+114	+031	+390	+338	+337	+368	+190	+157	+001
15.1	+267	+216	+226	+262	+130	+085	+044	+349	+290	+283	+319	+173	+130	+029
19.6	+185	+143	+168	+185	+115	+071	+013	+250	+212	+212	+250	+141	+111	+007
24.5	+161	+126	+152	+126	+110	+067	+008	+222	+190	+197	+176	+145	+111	+007
27.5	+134	+116	+134	+134	+068	+049	+025	+188	+175	+181	+118	+103	+077	+032
30.5	+113	+124	+134	+084	+117	+063	+026	+168	+176	+172	+124	+143	+084	+026
34.5	+101	+140	+140	+140	+140	+140	+140	+140	+140	+140	+140	+140	+140	+140
37.5	+081	+165	+158	+144	+139	+087	+082	+124	+206	+184	+165	+140	+102	+080
40.5	+101	+224	+200	+188	+183	+153	+139	+257	+219	+203	+197	+155	+146	+146
43.5	+183	+273	+264	+246	+224	+215	+175	+215	+301	+279	+260	+235	+213	+178
45.5	+360	+330	+295	+295	+196	+196	+196	+191	+303	+352	+310	+263	+193	+191
48.5	+104	+110	+110	+110	+110	+110	+110	+110	+110	+110	+110	+110	+110	+110
51.5	+1046	+810	+660	+323	+127	+234	+199	+924	+702	+679	+339	+125	+234	+192
54.5	+678	+876	+673	+573	+423	+358	+209	+751	+625	+672	+570	+514	+354	+201
57.5	+425	+972	+657	+563	+423	+345	+216	+440	+986	+640	+560	+521	+343	+209
59.5	+397	+1033	+636	+544	+425	+333	+227	+413	+999	+632	+546	+418	+326	+216
64.6	+226	+766	+599	+560	+420	+311	+228	+046	+653	+605	+554	+415	+304	+215
	M = 0.90	a = 12.44°						M = 0.90	a = 17.00°					
Upper surface														
-15.0														
-13.8														
-12.5														
-10.0														
-7.5														
-5.0														
0.0	+238	+519	+649	+675	+250	+994	+1015	+146	+887	+997	+731	+458	+876	
1.2	+342	+140	+477	+477	+477	+477	+477	+477	+477	+477	+477	+477	+477	
5.0	+398	+143	+132	+132	+132	+132	+132	+471	+472	+473	+475	+471	+471	
7.5	+651	+1362	+131	+546	+308	+104	+1030	+924	+1344	+951	+661	+440	+190	+851
10.0	+760	+1268	+089	+539	+310	+143	+955	+1026	+1295	+937	+651	+464	+192	+840
15.0	+736	+1043	+043	+532	+299	+140	+878	+982	+1242	+938	+644	+464	+1225	+810
17.5	+149	+1404	+1404	+1404	+1404	+1404	+1404	+1404	+1404	+1404	+1404	+1404	+1404	+1404
20.0	+641	+1120	+498	+413	+303	+103	+967	+799	+1170	+899	+664	+474	+1215	+718
22.5	+612	+1021	+930	+667	+307	+856	+1010	+737	+1135	+879	+672	+482	+1133	+674
25.0	+618	+854	+687	+323	+677	+677	+677	+677	+677	+677	+677	+677	+677	+677
27.5	+554	+554	+554	+554	+554	+554	+554	+554	+554	+554	+554	+554	+554	+554
30.0	+452	+452	+452	+452	+452	+452	+452	+452	+452	+452	+452	+452	+452	+452
49.5	+485	+039	+810	+644	+431	+092	+865	+617	+860	+804	+644	+592	+445	+425
51.5	+276	+024	+705	+615	+447	+004	+667	+539	+494	+506	+340	+267	+072	
54.5	+196	+027	+567	+583	+467	+033	+538	+495	+754	+627	+552	+349	+599	
57.5	+102	+051	+409	+551	+465	+006	+451	+497	+710	+730	+639	+542	+294	+540
60.0	+800	+754	+489	+363	+236	+109	+451	+397	+609	+634	+536	+458	+458	+458
72.5	+791	+738	+626	+498	+359	+329	+492	+882	+639	+528	+452	+450	+450	+448
84.6	+748	+4724	+889	+508	+416	+356	+504	+880	+784	+640	+593	+482	+443	+441
86.6	+485	+704	+887	+511	+420	+350	+520	+742	+648	+526	+452	+452	+447	+435
94.6	+656	+675	+534	+501	+418	+347	+528	+693	+759	+619	+516	+444	+440	+429
Lower surface														
-13.8														
-12.5														
-10.0														
-7.5														
-5.0														
0.0	+414	+599	+597	+561	+203	+182	+109	+047	+451	+391	+391	+207	+163	+084
2.6	+447	+608	+547	+572	+320	+281	+100	+433	+667	+612	+605	+409	+357	+190
5.0	+450	+522	+522	+522	+522	+522	+522	+522	+522	+522	+522	+522	+522	
7.5	+610	+511	+477	+499	+281	+229	+038							

TABLE II - LEADING-EDGE CHORD-EXTENSION AND SPOILER-SLOT-DEFLECTOR - Continued¹

Percent chord	Pressure coefficient													
	0.135b/2	0.25b/2	0.40b/2	0.55b/2	0.70b/2	0.85b/2	0.95b/2	0.135b/2	0.25b/2	0.40b/2	0.55b/2	0.70b/2	0.85b/2	0.95b/2
	M = 0.90	a = 21.16°						M = 0.94	a = 0.22°					
-15.0														
-13.8														
-12.5														
-10.0														
-7.5														
-5.0														
0.0														
Upper surface														
1.2	+0.00	-1.104	-0.965	-0.746	-0.620	-0.638	-0.566	+0.286	+0.529	+0.546	+0.572	+0.499	+0.398	+0.331
2.4	-0.778	-1.086	-0.897	-0.724	-0.571	-0.635	-0.589	-0.549	-0.647	-0.624	-0.601	+0.119	+0.112	+0.098
5.0	1.027	-1.024	-0.899	-0.718	-0.627	-0.638	-0.566	+0.323	+0.201	+0.057	+0.176	+0.024	+0.027	+0.071
7.5	1.051	-1.020	-0.883	-0.717	-0.634	-0.643	-0.568	+0.323	+0.201	+0.057	+0.176	+0.024	+0.027	+0.071
10.0	1.055	-1.017	-0.876	-0.714	-0.634	-0.643	-0.568	+0.323	+0.201	+0.057	+0.176	+0.024	+0.027	+0.071
12.5	1.059	-1.009	-0.861	-0.706	-0.642	-0.655	-0.571	+0.323	+0.201	+0.057	+0.176	+0.024	+0.027	+0.071
15.0	1.062	-1.003	-0.862	-0.693	-0.659	-0.663	-0.577	+0.323	+0.201	+0.057	+0.176	+0.024	+0.027	+0.071
17.5	1.064	-0.996	-0.873	-0.678	-0.641	-0.623	-0.581	+0.323	+0.201	+0.057	+0.176	+0.024	+0.027	+0.071
20.0	1.065	-0.991	-0.873	-0.678	-0.641	-0.623	-0.581	+0.323	+0.201	+0.057	+0.176	+0.024	+0.027	+0.071
22.5	1.066	-0.986	-0.873	-0.678	-0.641	-0.623	-0.581	+0.323	+0.201	+0.057	+0.176	+0.024	+0.027	+0.071
25.0	1.067	-0.981	-0.873	-0.678	-0.641	-0.623	-0.581	+0.323	+0.201	+0.057	+0.176	+0.024	+0.027	+0.071
27.5	1.068	-0.976	-0.873	-0.678	-0.641	-0.623	-0.581	+0.323	+0.201	+0.057	+0.176	+0.024	+0.027	+0.071
30.0	1.069	-0.971	-0.873	-0.678	-0.641	-0.623	-0.581	+0.323	+0.201	+0.057	+0.176	+0.024	+0.027	+0.071
32.5	1.070	-0.966	-0.873	-0.678	-0.641	-0.623	-0.581	+0.323	+0.201	+0.057	+0.176	+0.024	+0.027	+0.071
35.0	1.071	-0.961	-0.873	-0.678	-0.641	-0.623	-0.581	+0.323	+0.201	+0.057	+0.176	+0.024	+0.027	+0.071
37.5	1.072	-0.956	-0.873	-0.678	-0.641	-0.623	-0.581	+0.323	+0.201	+0.057	+0.176	+0.024	+0.027	+0.071
40.0	1.073	-0.951	-0.873	-0.678	-0.641	-0.623	-0.581	+0.323	+0.201	+0.057	+0.176	+0.024	+0.027	+0.071
42.5	1.074	-0.946	-0.873	-0.678	-0.641	-0.623	-0.581	+0.323	+0.201	+0.057	+0.176	+0.024	+0.027	+0.071
45.0	1.075	-0.941	-0.873	-0.678	-0.641	-0.623	-0.581	+0.323	+0.201	+0.057	+0.176	+0.024	+0.027	+0.071
47.5	1.076	-0.936	-0.873	-0.678	-0.641	-0.623	-0.581	+0.323	+0.201	+0.057	+0.176	+0.024	+0.027	+0.071
50.0	1.077	-0.931	-0.873	-0.678	-0.641	-0.623	-0.581	+0.323	+0.201	+0.057	+0.176	+0.024	+0.027	+0.071
52.5	1.078	-0.926	-0.873	-0.678	-0.641	-0.623	-0.581	+0.323	+0.201	+0.057	+0.176	+0.024	+0.027	+0.071
55.0	1.079	-0.921	-0.873	-0.678	-0.641	-0.623	-0.581	+0.323	+0.201	+0.057	+0.176	+0.024	+0.027	+0.071
57.5	1.080	-0.916	-0.873	-0.678	-0.641	-0.623	-0.581	+0.323	+0.201	+0.057	+0.176	+0.024	+0.027	+0.071
60.0	1.081	-0.911	-0.873	-0.678	-0.641	-0.623	-0.581	+0.323	+0.201	+0.057	+0.176	+0.024	+0.027	+0.071
62.5	1.082	-0.906	-0.873	-0.678	-0.641	-0.623	-0.581	+0.323	+0.201	+0.057	+0.176	+0.024	+0.027	+0.071
65.0	1.083	-0.901	-0.873	-0.678	-0.641	-0.623	-0.581	+0.323	+0.201	+0.057	+0.176	+0.024	+0.027	+0.071
67.5	1.084	-0.896	-0.873	-0.678	-0.641	-0.623	-0.581	+0.323	+0.201	+0.057	+0.176	+0.024	+0.027	+0.071
70.0	1.085	-0.891	-0.873	-0.678	-0.641	-0.623	-0.581	+0.323	+0.201	+0.057	+0.176	+0.024	+0.027	+0.071
72.5	1.086	-0.886	-0.873	-0.678	-0.641	-0.623	-0.581	+0.323	+0.201	+0.057	+0.176	+0.024	+0.027	+0.071
75.0	1.087	-0.881	-0.873	-0.678	-0.641	-0.623	-0.581	+0.323	+0.201	+0.057	+0.176	+0.024	+0.027	+0.071
77.5	1.088	-0.876	-0.873	-0.678	-0.641	-0.623	-0.581	+0.323	+0.201	+0.057	+0.176	+0.024	+0.027	+0.071
80.0	1.089	-0.871	-0.873	-0.678	-0.641	-0.623	-0.581	+0.323	+0.201	+0.057	+0.176	+0.024	+0.027	+0.071
82.5	1.090	-0.866	-0.873	-0.678	-0.641	-0.623	-0.581	+0.323	+0.201	+0.057	+0.176	+0.024	+0.027	+0.071
85.0	1.091	-0.861	-0.873	-0.678	-0.641	-0.623	-0.581	+0.323	+0.201	+0.057	+0.176	+0.024	+0.027	+0.071
87.5	1.092	-0.856	-0.873	-0.678	-0.641	-0.623	-0.581	+0.323	+0.201	+0.057	+0.176	+0.024	+0.027	+0.071
90.0	1.093	-0.851	-0.873	-0.678	-0.641	-0.623	-0.581	+0.323	+0.201	+0.057	+0.176	+0.024	+0.027	+0.071
92.5	1.094	-0.846	-0.873	-0.678	-0.641	-0.623	-0.581	+0.323	+0.201	+0.057	+0.176	+0.024	+0.027	+0.071
95.0	1.095	-0.841	-0.873	-0.678	-0.641	-0.623	-0.581	+0.323	+0.201	+0.057	+0.176	+0.024	+0.027	+0.071
97.5	1.096	-0.836	-0.873	-0.678	-0.641	-0.623	-0.581	+0.323	+0.201	+0.057	+0.176	+0.024	+0.027	+0.071
100.0	1.097	-0.831	-0.873	-0.678	-0.641	-0.623	-0.581	+0.323	+0.201	+0.057	+0.176	+0.024	+0.027	+0.071
Upper surface														
1.2	+0.271	+0.579	+0.591	+0.493	+0.323	+0.201	+0.176	+0.253	+0.042	+0.036	+0.009	+0.088	+0.125	+0.072
2.4	+0.374	+0.678	+0.624	+0.460	+0.285	+0.133	+0.149	+0.210	+0.019	+0.019	+0.008	+0.085	+0.122	+0.062
5.0	+0.450	+0.824	+0.742	+0.557	+0.323	+0.176	+0.233	+0.093	+0.009	+0.001	+0.019	+0.082	+0.121	+0.061
7.5	+0.482	+0.851	+0.761	+0.586	+0.357	+0.201	+0.241	+0.076	+0.009	+0.001	+0.019	+0.081	+0.120	+0.060
10.0	+0.513	+0.872	+0.782	+0.616	+0.386	+0.226	+0.250	+0.063	+0.009	+0.001	+0.019	+0.080	+0.119	+0.059
12.5	+0.544	+0.893	+0.802	+0.646	+0.415	+0.250	+0.255	+0.053	+0.009	+0.001	+0.019	+0.079	+0.118	+0.058
15.0	+0.575	+0.914	+0.822	+0.676	+0.444	+0.270	+0.257	+0.043	+0.009	+0.001	+0.019	+0.078	+0.117	+0.057
17.5	+0.606	+0.935	+0.842	+0.706	+0.473	+0.289	+0.259	+0.033	+0.009	+0.001	+0.019	+0.077	+0.116	+0.056
20.0	+0.637	+0.956	+0.862	+0.736	+0.502	+0.309	+0.261	+0.023	+0.009	+0.001	+0.019	+0.076	+0.115	+0.055
22.5	+0.668	+0.976	+0.882	+0.766	+0.531	+0.329	+0.263	+0.013	+0.009	+0.001	+0.019	+0.075	+0.114	+0.054
25.0	+0.699	+0.997	+0.902	+0.806	+0.560	+0.349	+0.265	+0.003	+0.009	+0.001	+0.019	+0.074	+0.113	+0.053
27.5	+0.730	+0.981	+0.922	+0.836	+0.589	+0.369	+0.267	+0.003	+0.009	+0.001	+0.019	+0.073	+0.112	+0.052
30.0	+0.761	+0.952	+0.942	+0.866	+0.618	+0.388	+0.269	+0.003	+0.009	+0.001	+0.019	+0.072	+0.111	+0.051
32.5	+0.792	+0.923	+0.962	+0.900	+0.647	+0.407	+0.271	+0.003	+0.009	+0.001	+0.019	+0.071	+0.110	+0.050
35.0	+0.823	+0.894	+0.982	+0.934	+0.676	+0.426	+0.273	+0.003	+0.009	+0.001	+0.019	+0.070	+0.109	+0.049
37.5	+0.854	+0.865	+0.902	+0.964	+0.705	+0.445	+0.275	+0.003	+0.009	+0.001	+0.019	+0.069	+0.108	+0.048
40.0	+0.885	+0.836	+0.922	+0.994	+0.734	+0.464	+0.277	+0.003	+0.009	+0.001	+0.019	+0.068	+0.107	+0.047
42.5	+0.916	+0.807	+0.942	+0.924	+0.763	+0.483	+0.279	+0.003	+0.009	+0.001	+0.019	+0.067	+0.106	+0.046
45.0	+0.947	+0.778	+0.962	+0.954	+0.792	+0.502	+0.281	+0.003	+0.009	+0.001	+0.019	+0.066	+0.105	+0.045
47.5	+0.978	+0.749	+0.982	+0.984	+0.821	+0.521	+0.283	+0.003	+0.009	+0.001	+0.019	+0.065	+0.104	+0.044
50.0	+1.009	+0.720	+0.902	+0.914	+0.850	+0.540	+0.285	+0.003	+0.009	+0.001	+0.019	+0.064	+0.103	+0.043
52.5	+1.040	+0.691	+0.932	+0.944	+0.879	+0.559	+0.287	+0.003	+0.009	+0.001	+0.019	+0.063	+0.102	+0.042
55.0	+1.071	+0.662	+0.962	+0.974	+0.908	+0.578	+0.289	+0.003	+0.009	+0.001	+0.019	+0.062	+0.101	+0.041
57.5	+1.102	+0.633	+0.992	+0.904	+0.937	+0.597	+0.291	+0.003	+0.009	+0.001	+0.019	+0.061	+0.100	+0.040
60.0	+1.133	+0.604	+0.932	+0.834	+0.966	+0.616	+0.293	+0.003	+0.009	+0.001	+0.019	+0.060	+0.100	+0.039
62.5	+1.164	+0.575	+0.962	+0.764	+0.995	+0.635	+0.295	+0.003	+0.009	+0.001	+0.019	+0.059	+0.100	+0.038
65.0	+1.195	+0.546	+0.992	+0.694	+0.995	+0.654	+0.297	+0.003	+0.009	+0.001	+0.019	+0.058	+0.100	+0.0

TABLE II. - LEADING-EDGE CHORD-EXTENSION AND SPOILER-SLOT-DEFLECTOR - Continued

Percent chord		Pressure coefficient											
		M = 0.94						M = 0.94					
		$\alpha = 8.21^\circ$			$\alpha = 12.78^\circ$			$\alpha = 8.21^\circ$			$\alpha = 12.78^\circ$		
		M	α	C_p	M	α	C_p	M	α	C_p	M	α	C_p
Upper surface	-15.0												
	-13.8												
	-12.5												
	-10.0												
	-7.5												
	-5.0												
	0.0												
	1.2	+310	+010	-+098	-+332	+043	+029	+387	+264	+094	+563	+723	+376
	2.4	+118	-+1265	-+1342	-+778	+056	+058	+1333	+1184	+674	+670	+405	+1120
	5.0	+360	+003	-+200	+745	+456	+049	+533	+334	+1329	+1354	+670	+1029
	7.5	+360	+003	-+200	+745	+456	+049	+533	+334	+1329	+1354	+670	+1029
	10.0	+411	-+659	-+1161	-+780	+365	+074	+501	+695	+1142	+1134	+645	+157
	12.5	+390	-+574	-+989	-+783	+255	+080	+501	+681	+1062	+1084	+669	+213
	15.0	+386	-+543	-+637	-+799	+184	+061	+535	+625	+1021	+1056	+695	+247
	17.5	+378	-+499	-+680	-+794	+117	+028	+555	+597	+999	+1006	+745	+138
	20.0	+370	-+454	-+604	-+744	+103	+028	+555	+597	+999	+1006	+745	+138
	22.5	+366	-+438	-+603	-+726	+112	+028	+555	+597	+999	+1006	+745	+138
	25.0	+373	-+424	-+621	-+746	+120	+017	+465	+527	+916	+979	+351	+103
	27.5	+373	-+424	-+621	-+746	+120	+017	+465	+527	+916	+979	+351	+103
	30.0	+006						+311	+014	+769	+397	+442	+060
	35.0	+871	-+809	-+639	-+507	+407	+338	+305	+853	+810	+646	+545	+409
	37.5	+871	-+809	-+639	-+507	+407	+338	+305	+853	+810	+646	+545	+409
	40.0	+871	-+809	-+639	-+507	+407	+338	+305	+853	+810	+646	+545	+409
	42.5	+780	-+773	-+642	-+508	+407	+332	+286	+804	+761	+688	+547	+372
	45.0	+726	-+758	-+626	-+504	+414	+330	+236	+732	+758	+659	+564	+318
	47.5	+682	-+732	-+619	-+498	+419	+325	+226	+688	+733	+650	+553	+354
	50.0												
Lower surface	-13.8												
	-12.5												
	-10.0												
	-7.5												
	-5.0												
	0.0												
	1.2	+438	+560	+540	+595	+425	+425	+609	+570	+547	+444	+385	
	2.4	+471	+519	+491	+510	+422	+422	+620	+582	+547	+444	+385	
	5.0	+485	+429	+422	+482	+229	+210	+626	+582	+547	+444	+385	
	7.6	+453	+382	+372	+411	+440	+440	+534	+491	+447	+385	+326	+106
	10.1	+407	+345	+347	+378	+195	+195	+504	+473	+448	+389	+326	+029
	12.5	+314	+255	+272	+306	+164	+163	+504	+473	+448	+389	+326	+029
	15.0	+271	+216	+232	+249	+159	+103	+507	+473	+448	+389	+326	+029
	17.5	+242	+198	+210	+190	+148	+093	+519	+473	+448	+389	+326	+029
	20.0	+210	+188	+197	+130	+104	+066	+519	+473	+448	+389	+326	+029
	22.5	+184	+200	+187	+152	+139	+049	+519	+473	+448	+389	+326	+029
	25.0	+144	+220	+199	+172	+160	+092	+513	+473	+448	+389	+326	+029
	27.5	+163	+274	+232	+207	+195	+150	+518	+473	+448	+389	+326	+029
	30.0	+240	+314	+288	+262	+240	+214	+520	+473	+448	+389	+326	+029
	35.0	+348	+318	+325	+299	+193	+151	+477	+470	+448	+389	+326	+029
	40.0												
Upper surface	42.5	+882	-+700	-+781	-+287	-+129	-+222	-+214	-+744	-+550	-+787	-+281	-+179
	45.0	+685	-+864	-+748	-+624	-+362	-+232	-+664	-+720	-+770	-+707	-+544	-+301
	47.5	+420	-+1044	-+702	-+616	-+222	-+353	-+238	-+909	-+713	-+682	-+269	-+307
	50.0	+988	-+877	-+594	-+452	-+229	-+240	-+181	-+793	-+640	-+682	-+557	-+442
	52.5	+057	+613	+644	+517	+449	+425	+132	+443	+474	+682	+551	+449
	55.0												
	57.5												
	60.0												
	62.5												
	65.0												
	67.5												
	70.0												
	72.5												
	75.0												
	77.5												
	80.0												
	82.5												
	85.0												
	87.5												
	90.0												
	92.5												
	95.0												
Lower surface	-13.8												
	-12.5												
	-10.0												
	-7.5												
	-5.0												
	0.0												
	1.2	+405	+634	+441	+550	+560	+410	+331	+608	+625	+507	+538	+385
	2.4	+440	+477	+429	+610	+567	+489	+427	+604	+621	+477	+442	+539
	5.0	+719	+679	+623	+532	+429	+370	+197	+751	+750	+678	+516	+440
	7.6	+782	+649	+587	+599	+457	+487	+467	+794	+662	+642	+442	+385
	10.1	+748	+612	+577	+575	+386	+321	+124	+840	+707	+661	+474	+395
	12.5	+683	+556	+512	+524	+356	+276	+072	+786	+660	+605	+467	+353
	15.0	+533	+490	+447	+455	+321	+253	+120	+786	+660	+605	+467	+353
	17.5	+513	+467	+405	+437	+313	+234	+022	+709	+659	+605	+467	+353
	20.0	+513	+437	+405	+381	+283	+207	+000	+630	+546	+502	+468	+358
	22.5	+470	+410	+378	+313	+218	+165	+051	+582	+515	+470	+406	+222
	25.0	+440	+390	+355	+288	+153	+105	+056	+553	+491	+442	+376	+308
	27.5	+440	+374	+324	+275	+230	+121	+076	+553	+491	+442	+376	+308
	30.0	+375	+400	+332	+274	+243	+150	+246	+476	+475	+398	+327	+280
	32.5	+419	+417	+367	+305	+275	+203	+031	+504	+483	+418	+346	+232
	35.0	+546	+437	+389	+366	+297	+204	+032	+352	+616	+495	+433	+336
	37.5	+470	+410	+378	+313	+218	+165	+051	+582	+515	+470	+406	+222
	40.0	+440	+390	+355	+288	+153	+105	+056	+553	+491	+442	+376	+308
	42.5	+440	+374	+324	+275	+230	+121	+076	+553	+491	+442	+376	+308
	45.0	+375	+400	+332	+274	+243	+150	+246	+476	+475	+398	+327	+280
	47.5	+419	+417	+367	+305	+275	+203	+031	+504	+483	+418	+346	+232
	50.0	+546	+437	+389	+366	+297	+204	+032	+352	+616	+495	+433	+336
	52.5	+470	+410	+378	+313	+218	+165	+051	+582	+515	+470	+406	+222
	55.0	+440	+390	+355	+288	+153	+105	+056	+553	+491	+442	+376	+308
	57.5	+440	+374	+324	+275	+230	+121	+076	+553	+491	+442	+376	+308
	60.0	+375	+400	+332	+274	+243	+150	+246	+476	+475	+398	+327	+280
	62.5	+419	+417	+367	+305	+275	+203	+031	+504	+483	+418	+346	+232
	65.0	+546	+437	+389	+366	+297	+204	+032	+352	+616	+495	+433	+336
	67.5	+470	+410	+378	+313	+218	+165	+051	+582	+515	+470	+406	+222
	70.0	+440	+390	+355	+288	+153	+105	+056	+553	+491	+442	+376	+308
	72.5	+440	+374	+324	+275	+230	+121	+076	+553	+491	+442	+376	+308
	75.0	+375	+400	+332	+274	+243	+150	+246	+476	+475	+398	+327	+280
	77.5	+419	+417	+367	+305	+275	+203	+031	+504	+483	+418	+346	+232
	80.0	+546	+437	+389	+366</								

TABLE II - LEADING-EDGE CHORD-EXTENSION AND SPOILER-SLOT-DEFLECTOR - Continued

Percent chord	Pressure coefficient												
	0.135b/2				0.25b/2				0.35b/2				
	M = 0.98	a = 0.22°	M = 0.98	a = 4.18°	M = 0.98	a = 0.22°	M = 0.98	a = 4.18°	M = 0.98	a = 0.22°	M = 0.98	a = 4.18°	
Upper surface													
-15.0	+304	+541	+577	+590	+554	+0.01	+344	+357	+232	+232	+251	+179	+204
-13.8	+342	+544	+578	+593	+556	+0.01	+348	+357	+232	+232	+253	+180	+207
-12.5	+370	+546	+586	+598	+558	+0.01	+352	+362	+234	+234	+253	+177	+207
-10.0	+408	+549	+589	+601	+561	+0.01	+354	+364	+236	+236	+253	+174	+204
-7.5	+446	+552	+597	+603	+563	+0.01	+356	+366	+238	+238	+253	+172	+202
-5.0	+483	+554	+604	+608	+565	+0.01	+358	+368	+240	+240	+253	+170	+200
0.0	+500	+554	+604	+608	+565	+0.01	+359	+369	+241	+241	+253	+168	+199
1.2	+342	+544	+578	+593	+556	+0.01	+348	+357	+232	+232	+253	+166	+197
2.5	+370	+546	+586	+598	+558	+0.01	+352	+362	+234	+234	+253	+164	+196
7.5	+108	+020	+072	+143	+51*	+0.01	+277	+277	+192	+192	+224	+177	+204
10.0	+076	+003	+070	+134	+55*	+0.01	+274	+274	+191	+191	+223	+174	+202
15.0	+044	+030	+074	+124	+56*	+0.01	+271	+271	+188	+188	+220	+171	+202
19.6	+012	+019	+071	+119	+57*	+0.01	+268	+268	+185	+185	+217	+168	+196
24.5	+009	+022	+149	+126	+107	+0.01	+265	+265	+182	+182	+214	+166	+194
29.5	+010	+056	+202	+129	+141	+0.01	+262	+262	+180	+180	+212	+164	+192
34.5	+010	+113	+231	+159	+170	+0.01	+259	+259	+178	+178	+210	+162	+190
39.5	+016	+195	+266	+191	+202	+0.01	+256	+256	+176	+176	+208	+160	+188
44.5	+039	+242	+281	+214	+231	+0.01	+253	+253	+174	+174	+206	+158	+186
49.5	+042	+361	+292	+248	+221	+0.01	+250	+250	+172	+172	+204	+156	+184
54.5	+201	+495	+379	+354	+323	+0.01	+247	+247	+170	+170	+202	+154	+182
59.5	+350	+499	+368	+367	+363	+0.01	+244	+244	+168	+168	+200	+152	+180
64.5	+488	+290	+351	+371	+357	+0.01	+241	+241	+166	+166	+198	+150	+178
69.6	+038						+238	+238	+164	+164	+196	+148	+177
74.6	+049	+882	+694	+610	+511	+0.01	+235	+235	+162	+162	+194	+146	+175
79.6	+058	+829	+723	+623	+522	+0.01	+232	+232	+160	+160	+192	+144	+174
84.6	+773	+821	+753	+630	+511	+0.01	+229	+229	+158	+158	+190	+142	+172
89.6	+651	+820	+781	+635	+514	+0.01	+226	+226	+156	+156	+188	+140	+170
94.6	+561	+794	+740	+631	+509	+0.01	+223	+223	+154	+154	+186	+138	+169
Lower surface													
-13.8	+268	+044	+026	+035	+032	+0.01	+143	+172	+434	+434	+403	+385	
-12.5	+227	+023	+023	+014	+023	+0.01	+140	+140	+432	+432	+391	+372	+397
-10.0	+112	+024	+017	+048	+025	+0.01	+137	+137	+429	+429	+389	+365	+390
-7.5	+052	+012	+006	+056	+055	+0.01	+134	+134	+426	+426	+387	+352	+373
0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0
1.2	+227	+023	+023	+014	+023	+0.01	+140	+140	+432	+432	+391	+365	+390
2.5	+166	+028	+038	+058	+040	+0.01	+140	+140	+432	+432	+391	+365	+390
7.5	+112	+024	+017	+048	+025	+0.01	+137	+137	+429	+429	+387	+352	+373
10.0	+076	+012	+006	+056	+055	+0.01	+134	+134	+426	+426	+387	+352	+373
15.0	+012	+002	+006	+056	+055	+0.01	+131	+131	+423	+423	+387	+352	+373
19.6	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0
24.5	+001	+054	+019	+057	+026	+0.01	+129	+129	+420	+420	+386	+351	+371
29.5	+013	+040	+029	+076	+007	+0.01	+126	+126	+418	+418	+384	+349	+369
34.5	+027	+039	+043	+011	+030	+0.01	+123	+123	+415	+415	+382	+348	+368
39.5	+047	+008	+077	+042	+042	+0.01	+120	+120	+412	+412	+380	+346	+366
44.5	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0
49.5	+049	+129	+118	+094	+090	+0.01	+117	+117	+408	+408	+379	+344	+364
54.5	+006	+220	+175	+157	+154	+0.01	+114	+114	+405	+405	+377	+342	+362
59.5	+143	+294	+242	+215	+202	+0.01	+111	+111	+402	+402	+375	+340	+360
64.5	+317	+349	+299	+259	+211	+0.01	+108	+108	+400	+400	+373	+339	+359
69.6	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0
74.6	+871	+956	+792	+423	+423	+0.01	+105	+105	+396	+396	+367	+332	+352
79.6	+722	+977	+768	+710	+540	+0.01	+102	+102	+393	+393	+365	+337	+357
84.6	+455	+1.015	+745	+678	+429	+0.01	+100	+100	+390	+390	+363	+335	+355
89.7	+409	+1.082	+725	+685	+552	+0.01	+98	+98	+388	+388	+361	+333	+353
94.6	+254	+969	+702	+626	+578	+0.01	+95	+95	+385	+385	+359	+331	+351
Upper surface													
-15.0	+330	+247	+185	+023	+479	+0.01	+673	+744	+096	+008	+241	+130	+181
-13.8	+227	+149	+147	+023	+476	+0.01	+670	+741	+113	+1.201	+1.042	+1.261	+1.181
-12.5	+198	+082	+887	+023	+473	+0.01	+667	+738	+111	+1.119	+1.049	+1.259	+1.179
-10.0	+179	+010	+738	+075	+475	+0.01	+660	+735	+108	+1.041	+1.034	+1.250	+1.169
-7.5	+182	+421	+922	+669	+465	+0.01	+656	+732	+105	+1.037	+1.027	+1.247	+1.156
0.0	+330	+247	+185	+023	+479	+0.01	+653	+729	+102	+1.034	+1.026	+1.244	+1.153
1.2	+227	+149	+147	+023	+476	+0.01	+650	+726	+100	+1.031	+1.023	+1.242	+1.151
2.5	+198	+082	+887	+023	+473	+0.01	+647	+723	+97	+1.028	+1.018	+1.239	+1.149
7.5	+182	+421	+922	+669	+465	+0.01	+643	+719	+94	+1.025	+1.015	+1.236	+1.147
10.0	+179	+010	+738	+075	+475	+0.01	+639	+716	+91	+1.022	+1.012	+1.233	+1.145
15.0	+121	+380	+454	+202	+201	+0.01	+635	+712	+88	+1.019	+1.009	+1.229	+1.142
19.6	+1.0	+246	+246	+127	+061	+0.01	+632	+709	+85	+1.016	+1.006	+1.226	+1.139
24.5	+223	+334	+324	+032	+249	+0.01	+629	+705	+82	+1.013	+1.003	+1.223	+1.137
29.5	+232	+342	+122	+081	+031	+0.01	+626	+702	+79	+1.010	+1.000	+1.220	+1.134
34.5	+260	+426	+158	+003	+474	+0.01	+623	+699	+76	+1.007	+1.000	+1.217	+1.131
39.5	+257	+242	+189	+059	+030	+0.01	+620	+696	+73	+1.004	+1.000	+1.214	+1.128
44.5	+294	+204	+202	+048	+030	+0.01	+616	+692	+70	+1.001	+1.000	+1.211	+1.125
49.5	+222	+399	+160	+079	+113	+0.01	+613	+689	+67	+0.998	+0.997	+1.208	+1.118
54.5	+222	+322	+247	+274	+138	+0.01	+609	+685	+64	+0.995	+0.994	+1.205	+1.115
59.5	+223	+177	+205	+220	+138	+0.01	+605	+681	+61	+0.992	+0.991	+1.202	+1.112
64.5	+342	+201	+165	+201	+129	+0.01	+602	+678	+58	+0.989	+0.988	+1.199	+1.107
69.6	+0.0	+439	+515	+493	+546	+0.01	+593	+675	+55	+0.986	+0.985	+1.196	+1.096
74.6	+929	+437	+485	+524	+473	+0.01	+590	+672	+52	+0.983	+0.982	+1.193	+1.093
79.6	+816	+449	+591	+528	+406	+0.01	+586	+669	+49	+0.980	+0.979	+1.190	+1.089
84.6	+797	+487	+597	+539	+400	+0.01	+583	+666	+46	+0.977	+0.976	+1.187	+1.087
89.6	+701	+794	+459	+540	+395	+0.01	+579	+662	+43	+0.974	+0.973	+1.184	+1.084
94.6	+616	+757	+694	+581	+391	+0.01	+576	+659	+40	+0.971	+0.970	+1.181	+1.081
Lower surface													
-13.8	+524	+449	+430	+526	+473	+0.01	+556	+594	+56	+0.964	+0.963	+1.174	+1.074
-12.5	+324	+327	+376	+424	+423	+0.01	+553	+591	+53	+0.961	+0.960	+1.171	+1.071
-10.0	+394	+324	+327	+376	+420	+0.01	+549	+588	+50	+0.958	+0.957	+1.168	+1.067
-7.5	+1.0	+339	+292	+305	+420	+0.01	+546	+585	+47	+0.955	+0.954	+1.165	+1.065
0.0	+1.0	+366	+241	+304	+455	+0.01	+543	+582	+44	+0.952	+0.951	+1.162	+1.062
1.2	+261	+224	+208	+188	+452	+0.01	+540	+579	+41	+0.949	+0.948	+1.159	+1.059
2.5	+116	+224	+208	+188	+452	+0.01	+537	+576	+38	+0.946	+0.945	+1.156	+1.056
7.5	+145	+284	+246	+208	+194	+0.01	+534	+573	+35	+0.943	+0.942	+1.153	+1.053
10.0	+240	+328	+309	+264	+247	+0.01	+531	+570	+32	+0.940	+0.939	+1.150	+1.050
15.0	+223	+322	+247	+274	+138</td								

TABLE II. - LEADING-EDGE CHORD-EXTENSION AND SPOILER-SLOT-DEFLECTOR - Continued

TABLE II. - LEADING-EDGE CHORD-EXTENSION AND SPOILER-SLOT-DEFLECTOR - Continued

Percent chord	Pressure coefficient												
	M = 1.00				M = 1.00								
	0.135b/2	0.25b/2	0.40b/2	0.55b/2	0.70b/2	0.85b/2	0.95b/2	0.135b/2	0.25b/2	0.40b/2	0.55b/2	0.70b/2	0.85b/2
$\alpha = 8.21^\circ$													
Upper surface													
-15.0													
-13.8													
-12.5													
-10.0													
-7.5													
-5.0													
0.0													
1.2	.260	.123	.025	-.206	-.523	-.613		.322	-.294	-.404	-.600	-.337	-.987
2.4	-.093	-.109	-.155	-.1102				.049	-.1196	-.1040	-.588		
7.5	-.261	-.085	-.140	-.072				.517	-.1118	-.1046	-.568		
10.0	-.295	-.001	-.170	-.042	-.713	-.555		.576	-.062	-.047	-.573		
12.5	-.295	-.450	-.948	-.652	-.303	-.683		.556	-.075	-.041	-.396		
15.0	-.303	-.129	-.684	-.622	-.420	-.633		.569	-.075	-.041	-.396		
17.5	-.298	-.194	-.437	-.468	-.169	-.463		.488	-.088	-.041	-.397		
20.0	-.281	-.392	-.139	-.460	-.262	-.651		.462	-.080	-.071	-.868		
22.5	-.281	-.392	-.139	-.460	-.262	-.651		.467	-.078	-.071	-.403		
25.0	-.281	-.392	-.139	-.460	-.262	-.651		.467	-.078	-.071	-.403		
27.5	-.281	-.392	-.139	-.460	-.262	-.651		.467	-.078	-.071	-.403		
30.0	-.281	-.392	-.139	-.460	-.262	-.651		.467	-.078	-.071	-.403		
35.0	-.281	-.392	-.139	-.460	-.262	-.651		.467	-.078	-.071	-.403		
40.0	-.281	-.392	-.139	-.460	-.262	-.651		.467	-.078	-.071	-.403		
45.0	-.281	-.392	-.139	-.460	-.262	-.651		.467	-.078	-.071	-.403		
50.0	-.281	-.392	-.139	-.460	-.262	-.651		.467	-.078	-.071	-.403		
55.0	-.281	-.392	-.139	-.460	-.262	-.651		.467	-.078	-.071	-.403		
60.0	-.281	-.392	-.139	-.460	-.262	-.651		.467	-.078	-.071	-.403		
65.0	-.281	-.392	-.139	-.460	-.262	-.651		.467	-.078	-.071	-.403		
70.0	-.281	-.392	-.139	-.460	-.262	-.651		.467	-.078	-.071	-.403		
75.0	-.281	-.392	-.139	-.460	-.262	-.651		.467	-.078	-.071	-.403		
80.0	-.281	-.392	-.139	-.460	-.262	-.651		.467	-.078	-.071	-.403		
85.0	-.281	-.392	-.139	-.460	-.262	-.651		.467	-.078	-.071	-.403		
90.0	-.281	-.392	-.139	-.460	-.262	-.651		.467	-.078	-.071	-.403		
95.0	-.281	-.392	-.139	-.460	-.262	-.651		.467	-.078	-.071	-.403		
100.0	-.281	-.392	-.139	-.460	-.262	-.651		.467	-.078	-.071	-.403		
$\alpha = 12.94^\circ$													
Upper surface													
-15.0													
-13.8													
-12.5													
-10.0													
-7.5													
-5.0													
0.0													
1.2	.477	.597	.581	.588				.467	.675	.659	.620		
2.4	.513	.556	.527	.542				.548	.675	.621	.627		
5.0	.533	.556	.527	.542				.569	.618	.580	.615	.375	.335
7.5	.526	.557	.527	.543				.569	.618	.580	.615		.164
10.0	.492	.521	.517	.544				.569	.618	.580	.615		
12.5	.492	.538	.517	.544				.569	.618	.580	.615		
15.0	.413	.541	.336	.371				.569	.618	.580	.615		
17.5	.360	.290	.316	.210				.476	.398	.393	.406		
20.0	.322	.277	.286	.213				.476	.398	.393	.406		
22.5	.322	.284	.248	.137				.476	.398	.393	.406		
25.0	.322	.284	.248	.137				.476	.398	.393	.406		
27.5	.255	.238	.241	.193				.476	.398	.393	.406		
30.0	.211	.252	.241	.167				.476	.398	.393	.406		
35.0	.211	.252	.241	.167				.476	.398	.393	.406		
40.0	.194	.275	.232	.205				.476	.398	.393	.406		
45.0	.194	.275	.232	.205				.476	.398	.393	.406		
50.0	.245	.237	.284	.237				.476	.398	.393	.406		
55.0	.245	.237	.284	.237				.476	.398	.393	.406		
60.0	.245	.237	.284	.237				.476	.398	.393	.406		
65.0	.245	.237	.284	.237				.476	.398	.393	.406		
70.0	.245	.237	.284	.237				.476	.398	.393	.406		
75.0	.245	.237	.284	.237				.476	.398	.393	.406		
80.0	.245	.237	.284	.237				.476	.398	.393	.406		
85.0	.245	.237	.284	.237				.476	.398	.393	.406		
90.0	.245	.237	.284	.237				.476	.398	.393	.406		
95.0	.245	.237	.284	.237				.476	.398	.393	.406		
100.0	.245	.237	.284	.237				.476	.398	.393	.406		
$\alpha = 4.18^\circ$													
Upper surface													
-15.0													
-13.8													
-12.5													
-10.0													
-7.5													
-5.0													
0.0													
1.2	.281	.057	.607	.640				.247	.425	.409	.427		
2.4	.180	-.008	.078	.211				.245	.430	.409	.427		
5.0	.100	.000	.100	.201				.245	.430	.409	.427		
7.5	.076	.000	.100	.201				.245	.430	.409	.427		
10.0	.047	.036	.117	.193				.245	.430	.409	.427		
12.5	.047	.036	.117	.193				.245	.430	.409	.427		
15.0	.024	.043	.142	.185				.245	.430	.409	.427		
17.5	.004	.021	.170	.183				.245	.430	.409	.427		
20.0	.031	.038	.210	.183				.245	.430	.409	.427		
22.5	.012	.024	.284	.196				.245	.430	.409	.427		
25.0	.012	.024	.284	.196				.245	.430	.409	.427		
27.5	.007	.024	.284	.225				.245	.430	.409	.427		
30.0	.007	.024	.284	.225				.245	.430	.409	.427		
35.0	.006	.035	.361	.292				.245	.430	.409	.427		
40.0	.004	.044	.408	.349				.245	.430	.409	.427		
45.0	.041	.463	.428	.349				.245	.430	.409	.427		
50.0	.249	.547	.428	.349				.245	.430	.409	.427		
55.0	.252	.547	.428	.349				.245	.430	.409	.427		
60.0	.252	.547	.428	.349				.245	.430	.409	.427		
65.0	.252	.547	.428	.349				.245	.430	.409	.427		
70.0	.252	.547	.428	.349				.245	.430	.409	.427		
75.0	.252	.547	.428	.349				.245	.430	.409	.427		
80.0	.252	.547	.428	.349				.245	.430	.409	.427		
85.0	.252	.547	.428	.349				.245	.430	.409	.427		
90.0	.252	.547	.428	.349				.245	.430	.409	.427		
95.0	.252	.547	.428	.349				.245	.430	.409	.427		
100.0	.252	.547	.428	.349				.245	.430	.409	.427		
$\alpha = 0.22^\circ$													
Upper surface													
-15.0													
-13.8													
-12.5													
-10.0													
-7.5													
-5.0													
0.0													
1.2	.227	.060	.068	.101				.338	.421	.447	.544		

TABLE II. - LEADING-EDGE CHORD-EXTENSION AND SPOILER-SLOT-DEFLECTOR - Concluded

Percent chord	Pressure coefficient											
	0.135b/2	0.25b/2	0.40b/2	0.55b/2	0.70b/2	0.85b/2	0.95b/2	0.135b/2	0.25b/2	0.40b/2	0.55b/2	0.70b/2
	M = 1.03	$\alpha = 6.16^\circ$						M = 1.03	$\alpha = 8.21^\circ$			
-15.0												
-13.8												
-12.5												
-10.0												
-7.5												
-5.0												
0.0	+296	+317	+264	+064								
1.2	+220	+036	+035	+035	+799							
2.4	+011	+016	+016	+016	+799							
5.0	+116	+149	+840	+726	+317	+180	+348	+081	+101	+1047	+1030	+1000
7.5	+132	+359	+714	+587								
10.0	+185	+315	+658	+447	+229	+130	+245	+226	+282	+942	+811	+886
12.5	+173	+311	+465	+251	+130	+111	+104	+249	+395	+867	+573	+636
15.0	+193	+306	+466	+251	+084	+040	+006	+268	+373	+706	+546	+442
19.6	+204	+272	+062	+148	+031	+001	+050	+265	+345	+451	+539	+442
24.5	+204	+272	+062	+148	+031	+001	+069	+247	+342	+155	+480	+452
29.5	+183	+280	+185	+043	+020	+027	+069	+247	+351	+155	+480	+452
34.5	+203	+283	+233	+036	+052	+055	+075	+248	+351	+155	+480	+452
39.5	+203	+005	+260	+081	+086	+086	+086	+249	+352	+155	+480	+452
44.5	+236	+221	+052	+112	+079	+131	+023	+289	+092	+230	+115	+076
49.5	+145	+123	+245	+144	+120	+151	+032	+292	+236	+215	+142	+084
54.5	+017	+364	+223	+186	+134	+159	+097	+038	+289	+200	+198	+108
59.5	+199	+211	+193	+214	+152	+152	+163	+074	+232	+180	+209	+131
64.5	+344	+273	+140	+244	+146	+134	+254	+178	+254	+143	+229	+180
69.6	+103											
74.6	+142	+750	+594	+545	+538	+457	+333	+520	+757	+595	+534	+560
79.6	+841	+730	+606	+556	+558	+431	+326	+842	+735	+606	+546	+593
84.6	+728	+715	+622	+566	+572	+413	+341	+756	+717	+620	+557	+621
89.6	+667	+706	+651	+565	+584	+403	+356	+629	+704	+638	+552	+632
94.6	+539	+668	+648	+557	+591	+398	+328	+554	+674	+639	+543	+645
-13.8												
-12.5												
-10.0												
-7.5												
-5.0												
0.0												
1.3	+388	+534	+561	+582				+428	+614	+605	+610	
2.6	+427	+481	+478	+519				+490	+578	+578	+603	+512
5.0	+437	+391	+408	+464	+254	+232	+060	+540	+480	+516	+304	+275
7.6	+407	+351	+382	+415	+415	+223	+187	+013	+475	+413	+444	+267
10.1	+38	+31	+359	+320	+223	+187	+067	+435	+341	+361	+399	+249
13.1	+326	+277	+299	+351	+211	+159	+024	+387	+318	+318	+348	+229
19.6	+289	+240	+288	+326	+192	+184	+045	+276	+308	+315	+223	+180
24.5	+251	+210	+256	+271	+188	+147	+181	+251	+269	+290	+274	+211
29.5	+232	+202	+246	+236	+181	+150	+025	+280	+259	+276	+239	+168
34.5	+204	+200	+249	+229	+181	+102	+025	+280	+259	+276	+239	+168
39.5	+170	+214	+239	+195	+182	+098	+013	+261	+266	+270	+223	+207
44.5	+169	+243	+246	+199	+182	+080	+004	+236	+285	+273	+221	+196
49.5	+159	+280	+263	+221	+202	+091	+040	+236	+309	+323	+215	+105
54.5	+193	+342	+300	+256	+249	+154	+139	+360	+316	+267	+254	+157
59.5	+286	+385	+362	+308	+290	+211	+232	+328	+400	+372	+312	+298
64.5	+469	+437	+382	+372	+307	+213	+303	+496	+450	+394	+374	+314
69.6	+697							+319	+758			
74.6	+756	+651	+733	+147	+096	+250	+331	+764	+585	+739	+145	+100
79.6	+586	+769	+709	+725	+618	+497	+299	+729	+123	+715	+778	+651
84.6	+310	+869	+656	+704	+138	+095	+305	+874	+643	+802	+339	+523
89.7	+191	+854	+681	+718	+105	+049	+314	+156	+831	+598	+843	+632
94.6	+007	+628	+555	+718	+593	+443	+326	+037	+508	+557	+802	+616

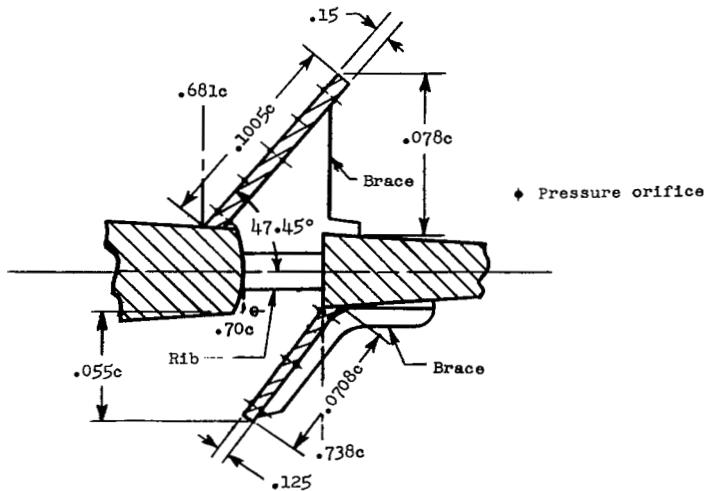
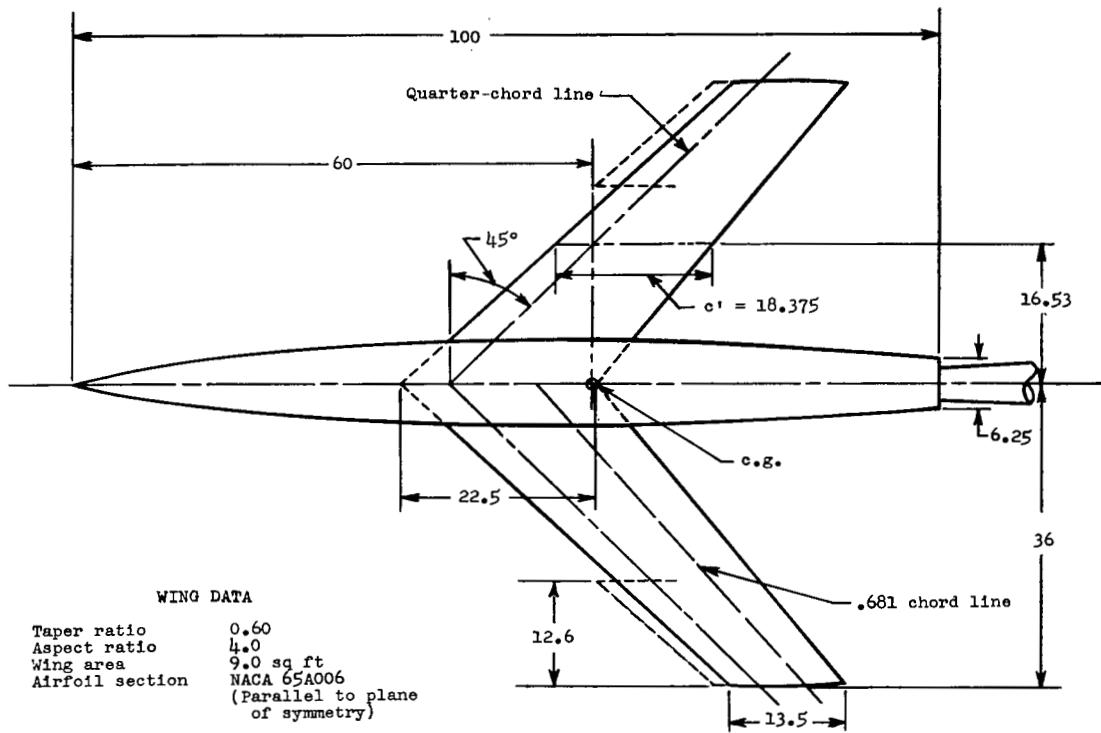


Figure 1.- Diagram and dimensional details of wing-fuselage model and cross-sectional detail of pressure-instrumented spoiler-slot-deflector control. (All linear dimensions in inches, except as noted.)

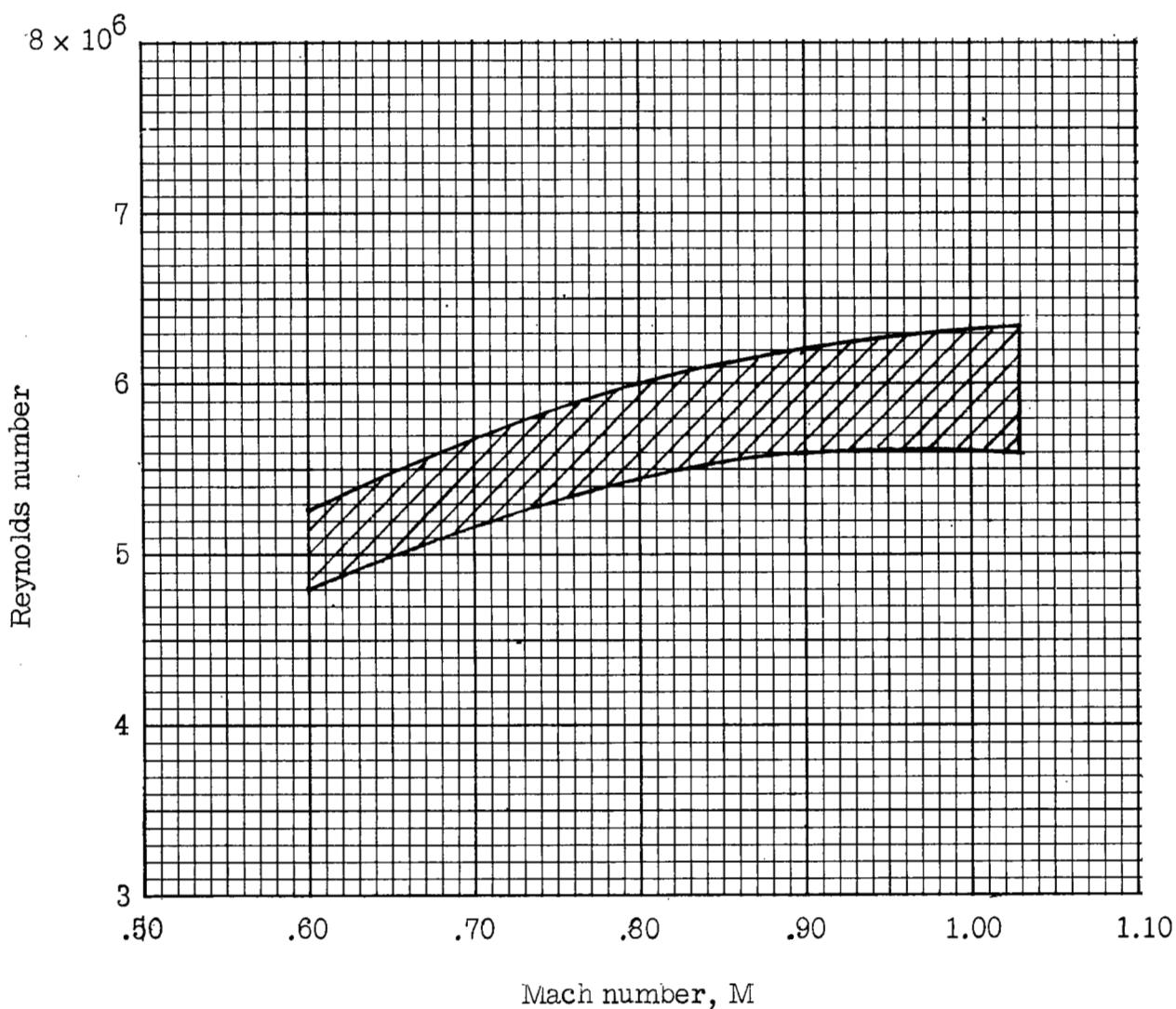


Figure 2.- Variation of Reynolds number (based on wing mean aerodynamic chord) with Mach number.

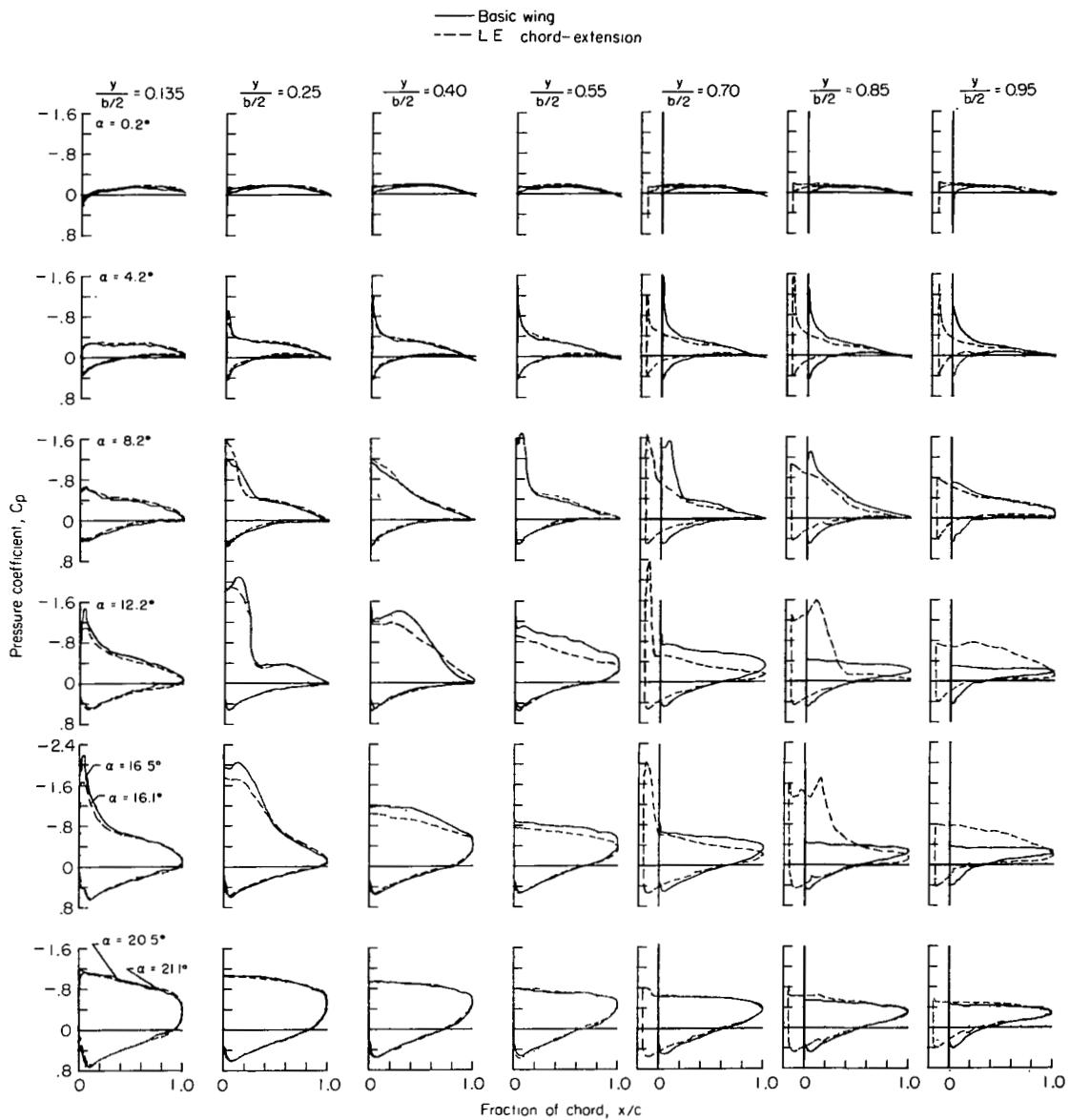
(a) $M = 0.60; C_{p,cr} = -1.30.$

Figure 3.- Wing chordwise pressure distributions for the basic and leading-edge chord-extension configurations.

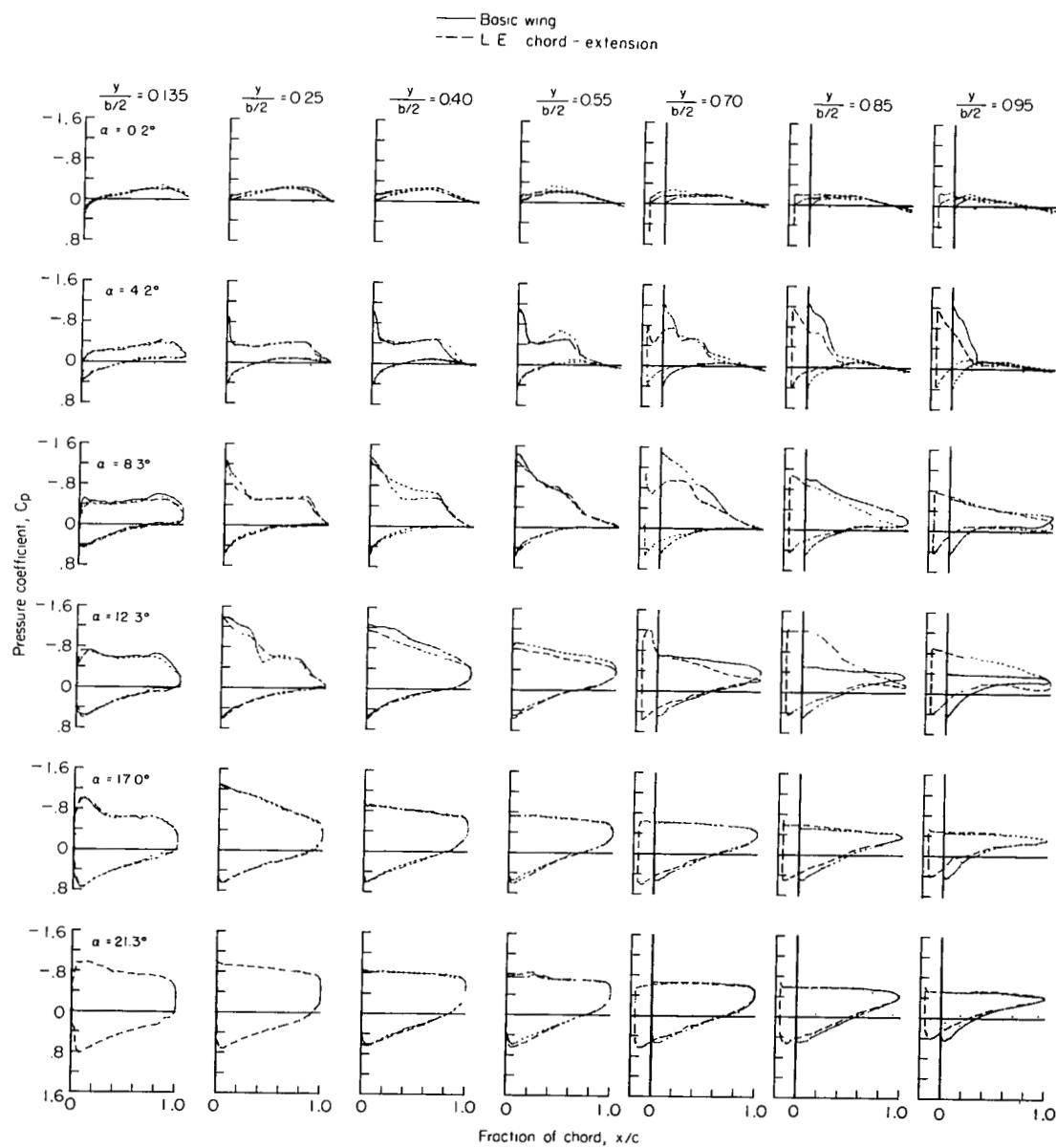
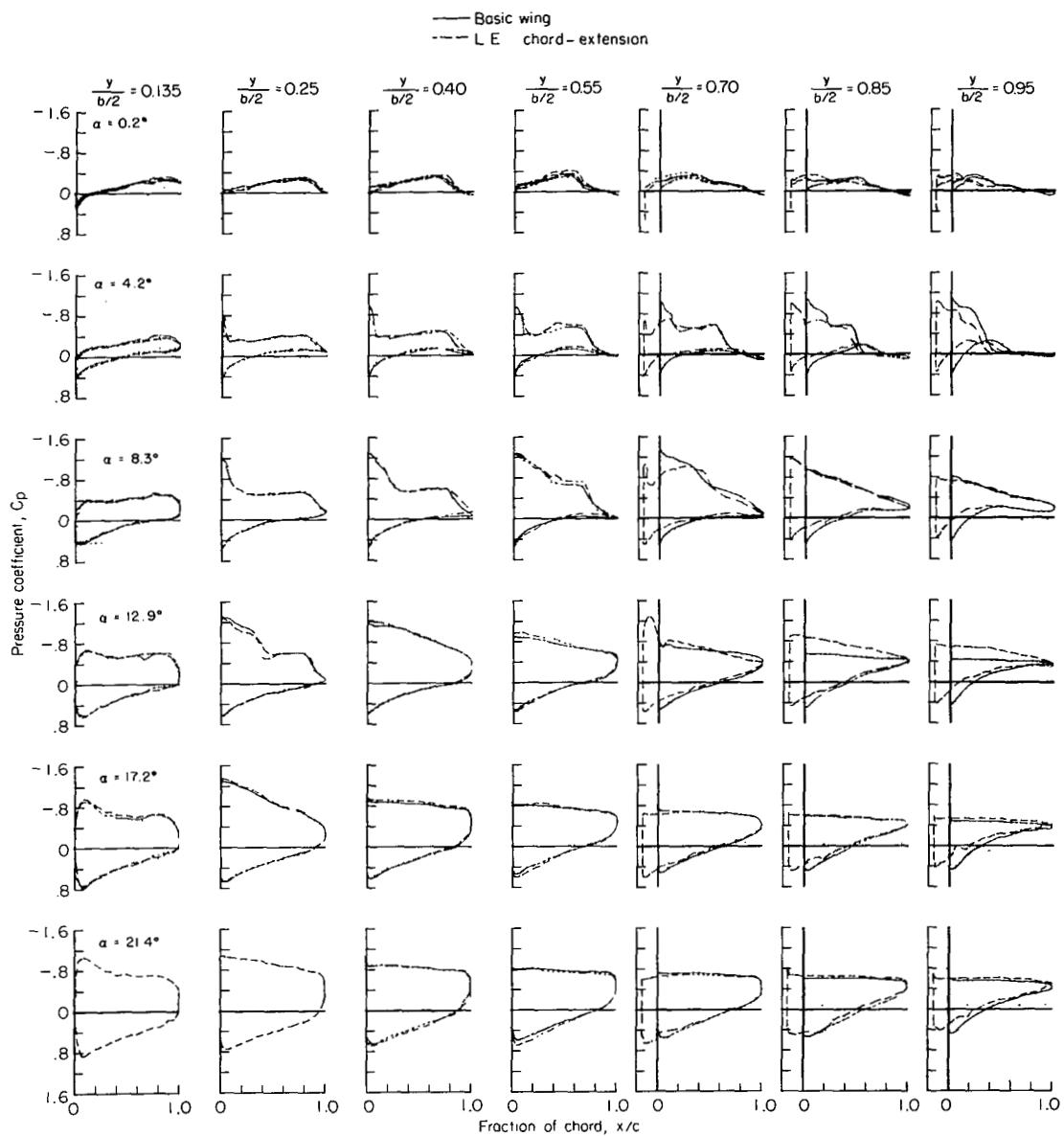
(b) $M = 0.90; C_{p,cr} = -0.19$.

Figure 3.- Continued.



(c) $M = 0.94$; $C_{p,cr} = -0.11$.

Figure 3.- Continued.

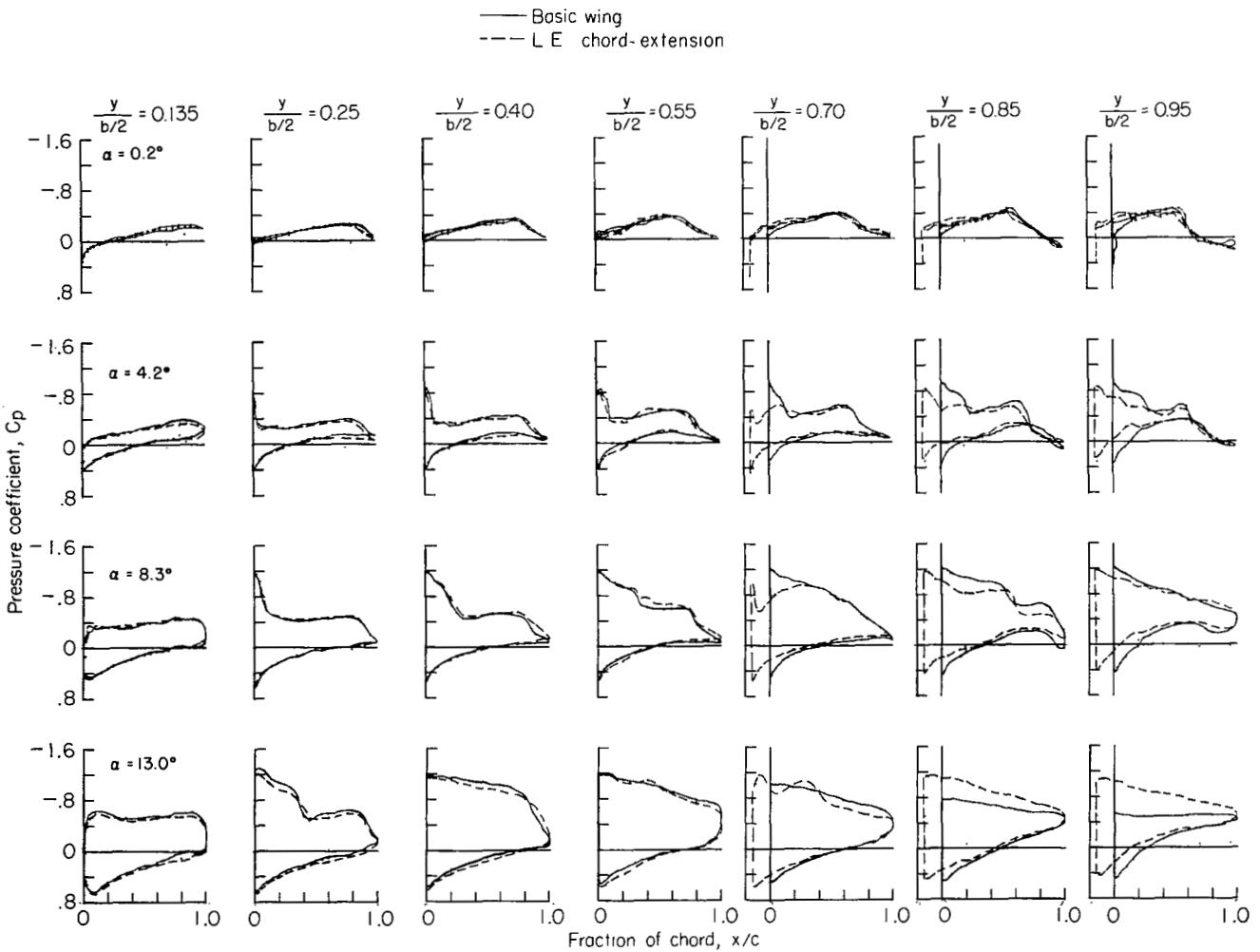
(d) $M = 0.98; C_{p,cr} = -0.03.$

Figure 3.- Continued.

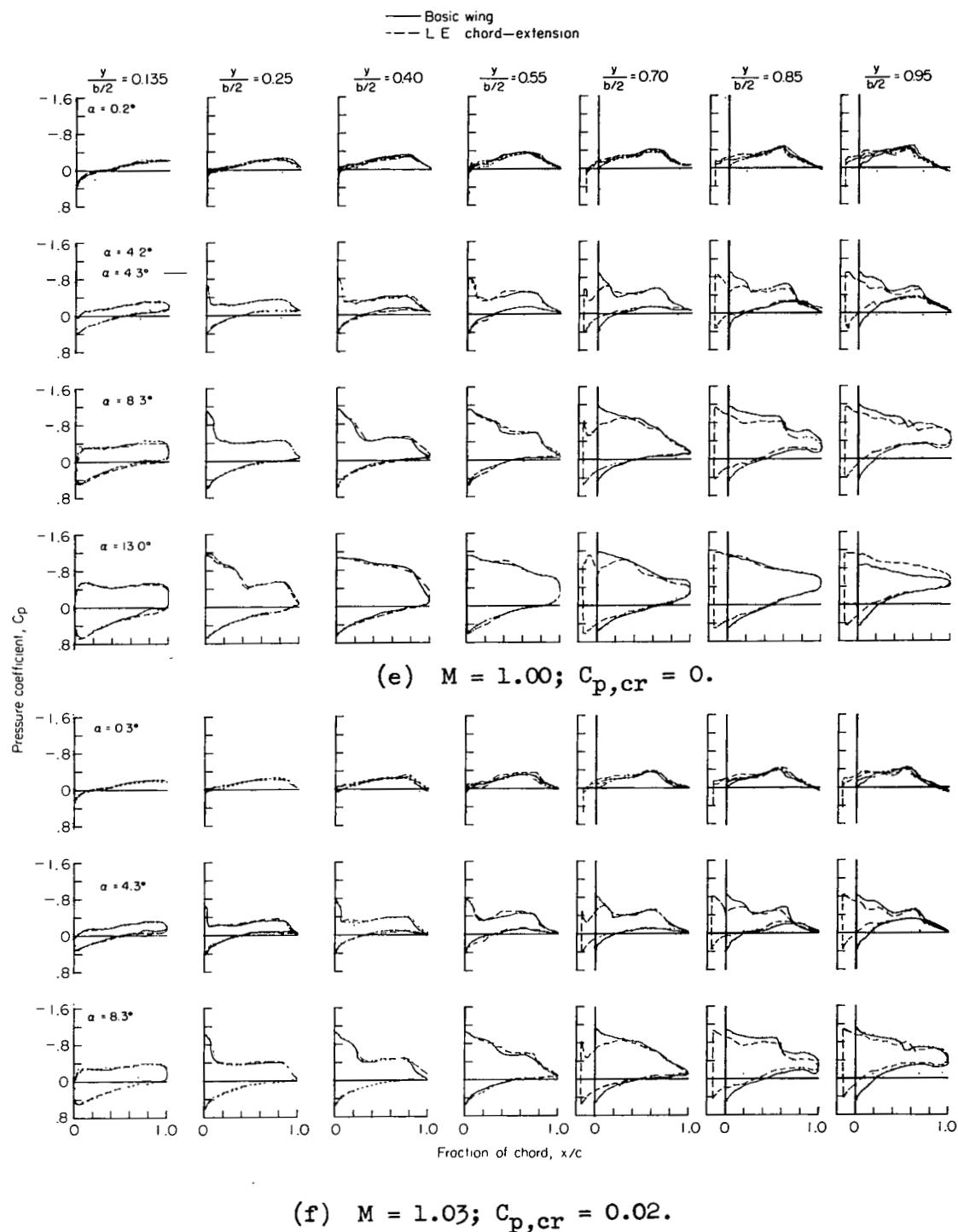


Figure 3.- Concluded.

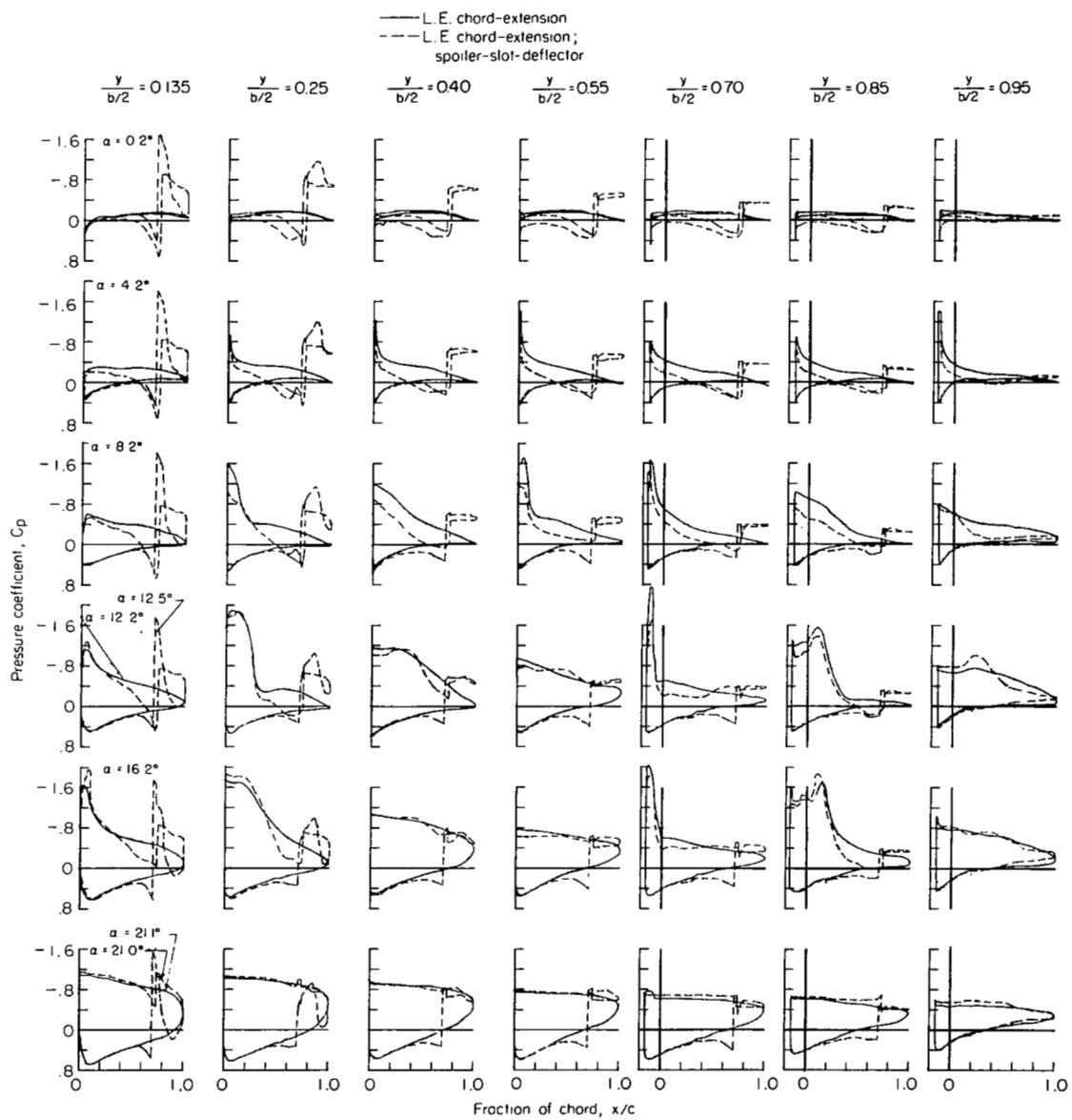
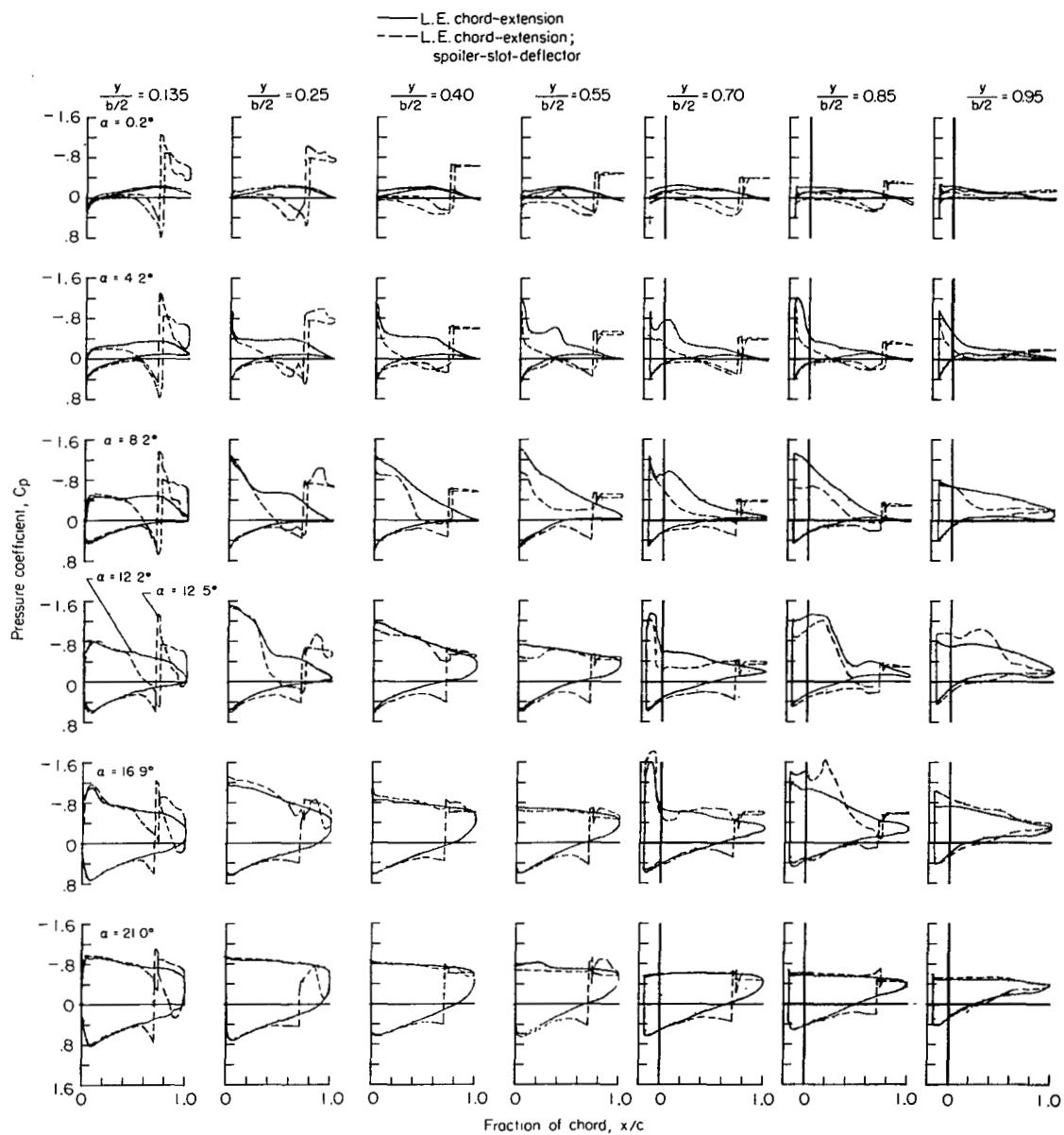
(a) $M = 0.60; C_{p,cr} = -1.30.$

Figure 4.- Wing chordwise pressure distributions for leading-edge chord-extension configuration with and without the spoiler-slot-deflector aileron.

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(b) $M = 0.85$; $C_{p,cr} = -0.30$.

Figure 4.- Continued.

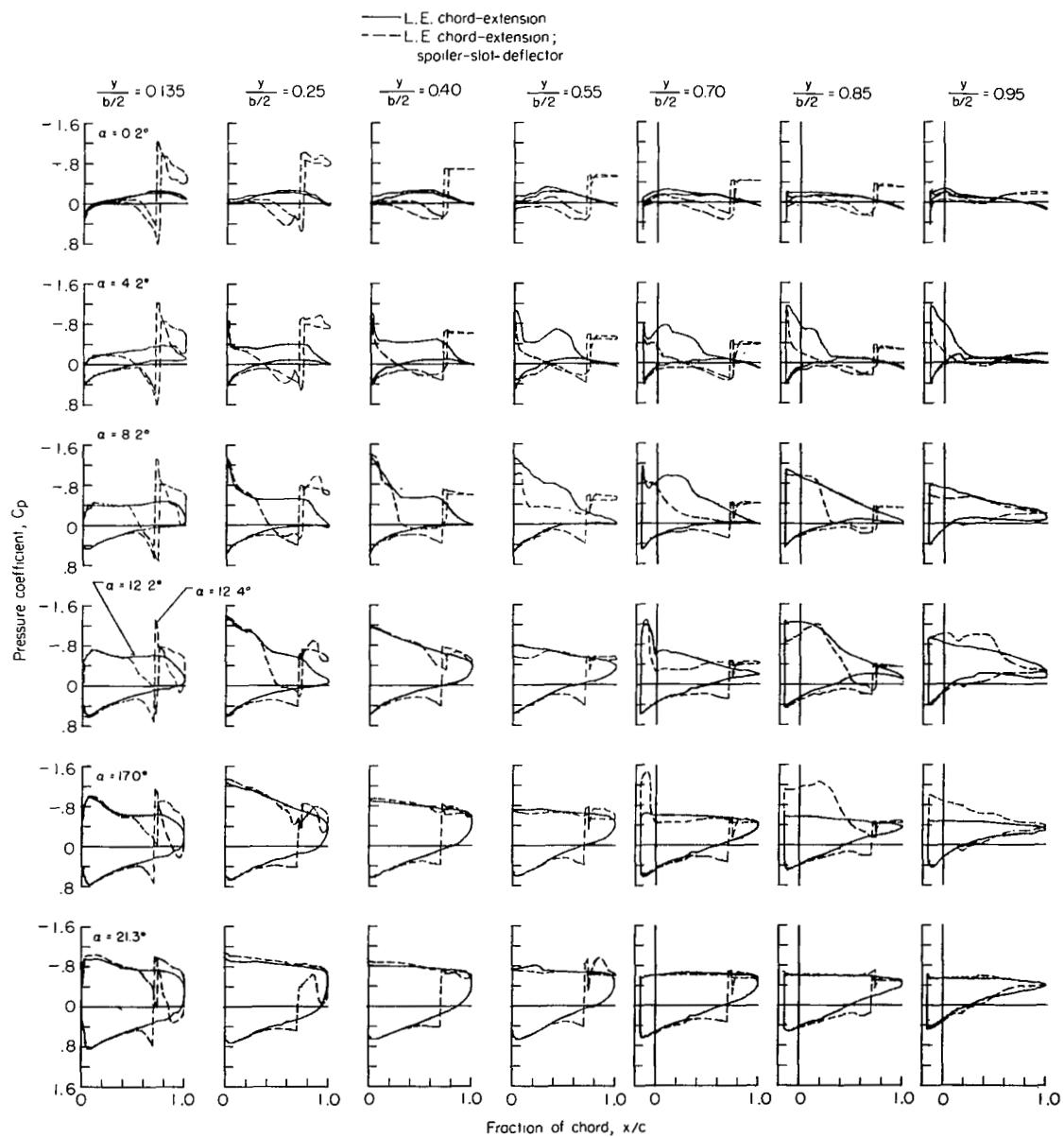
(c) $M = 0.90$; $C_{p,cr} = -0.19$.

Figure 4.- Continued.

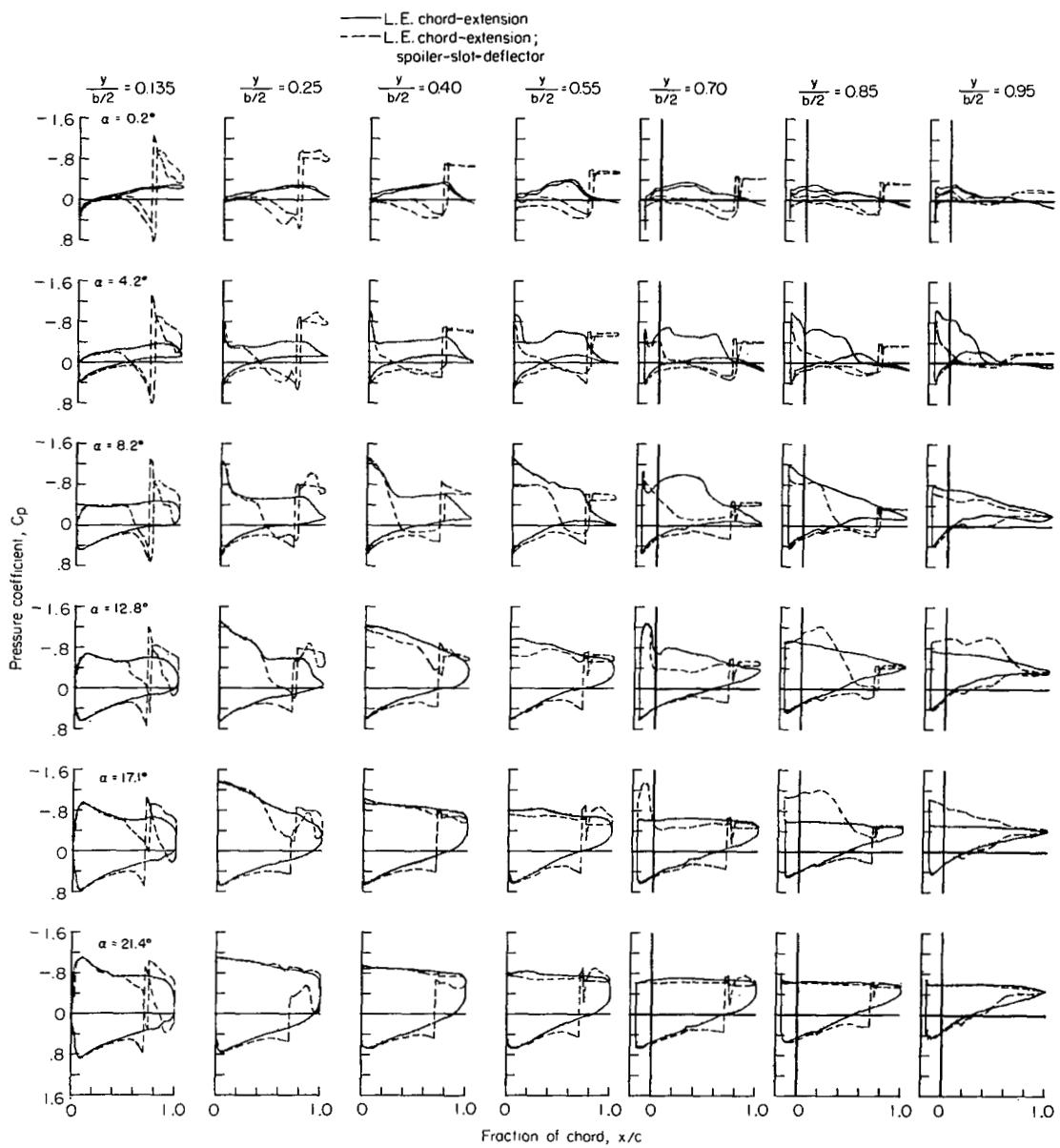
(d) $M = 0.94$; $C_{p,cr} = -0.11$

Figure 4.- Continued.

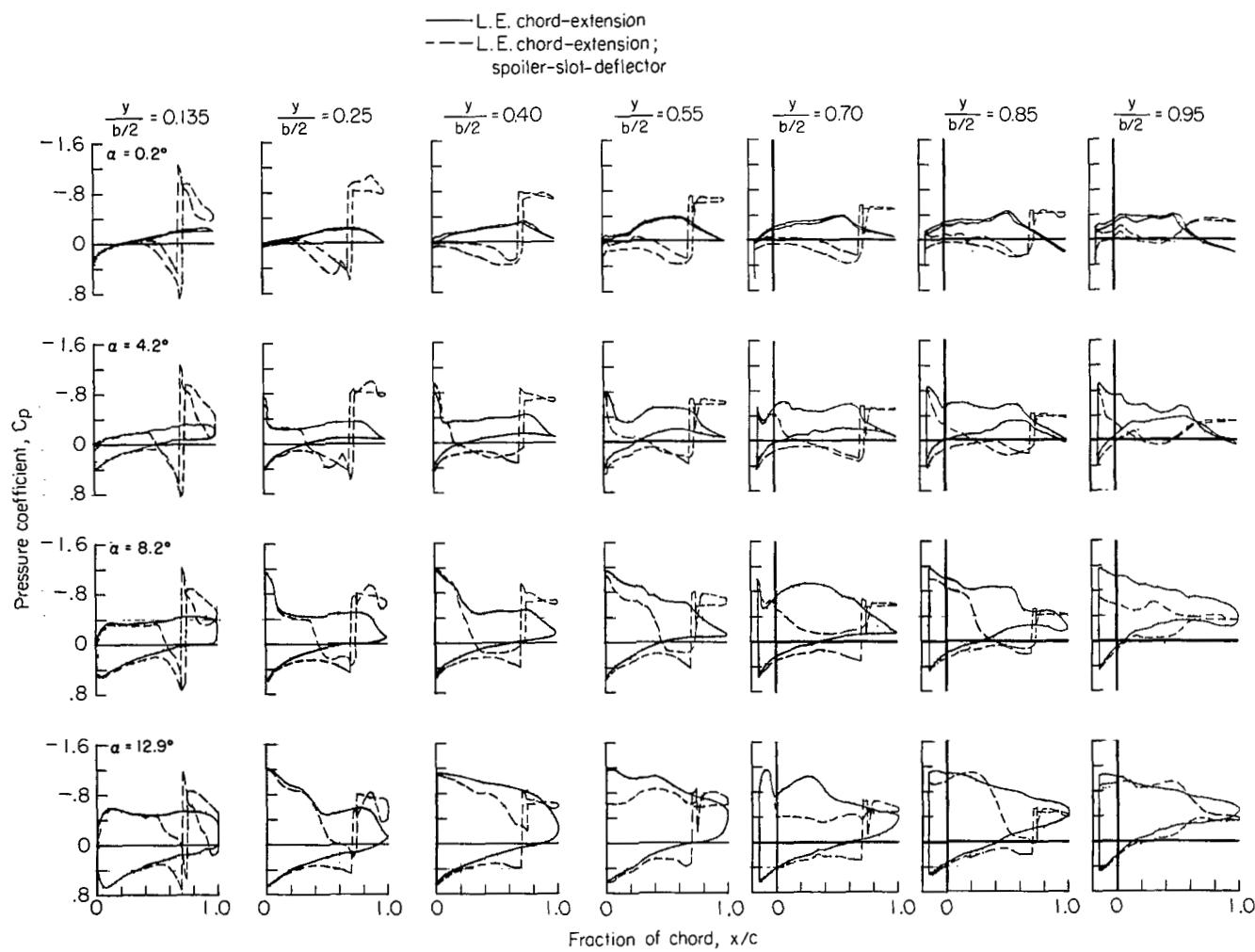
(e) $M = 0.98; C_{p,cr} = -0.03$

Figure 4.- Continued.

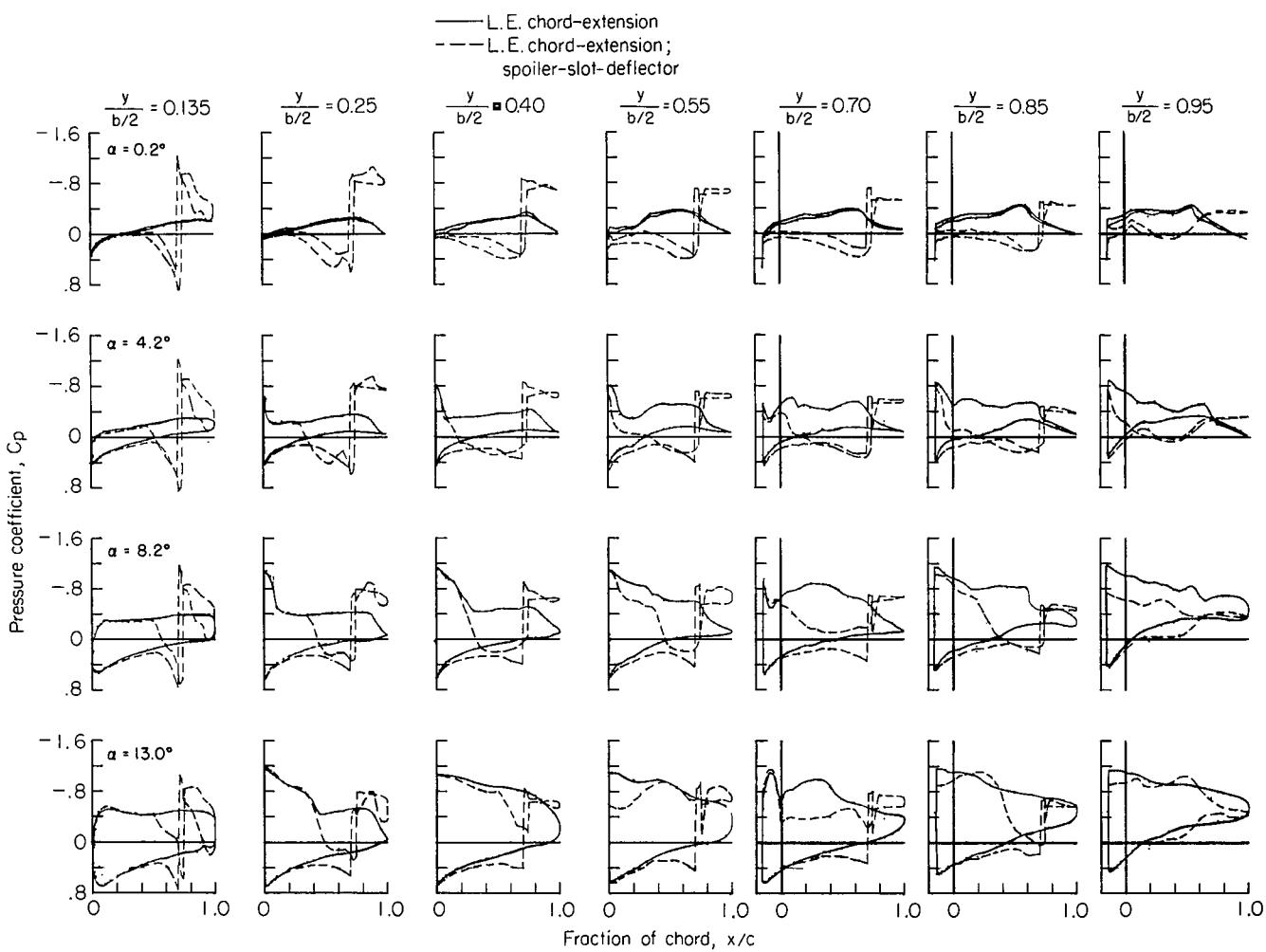
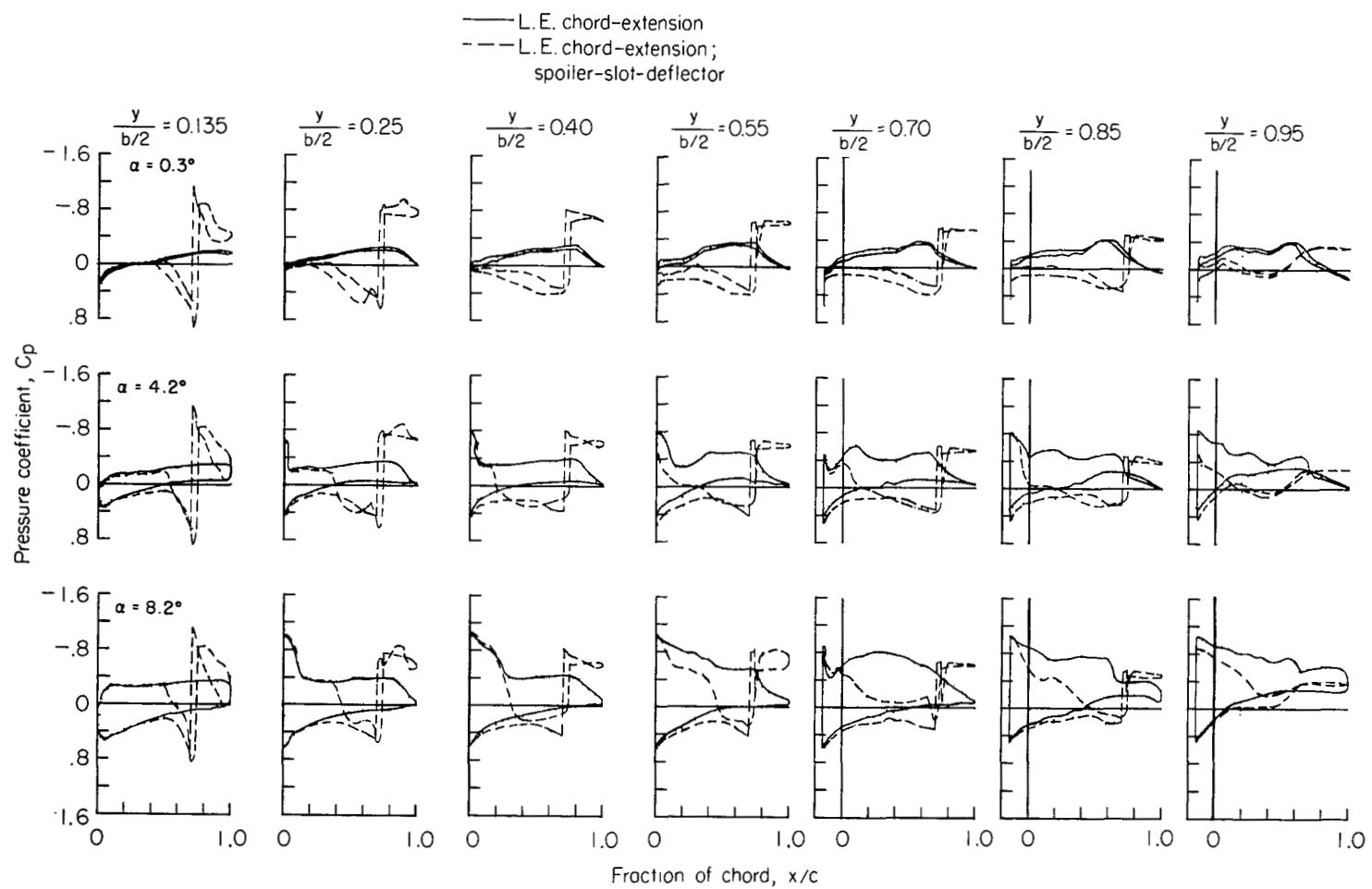
(f) $M = 1.00$; $C_{p,cr} = 0$.

Figure 4.- Continued.



(g) $M = 1.03$; $C_{p,cr} = 0.02$.

Figure 4.- Concluded.

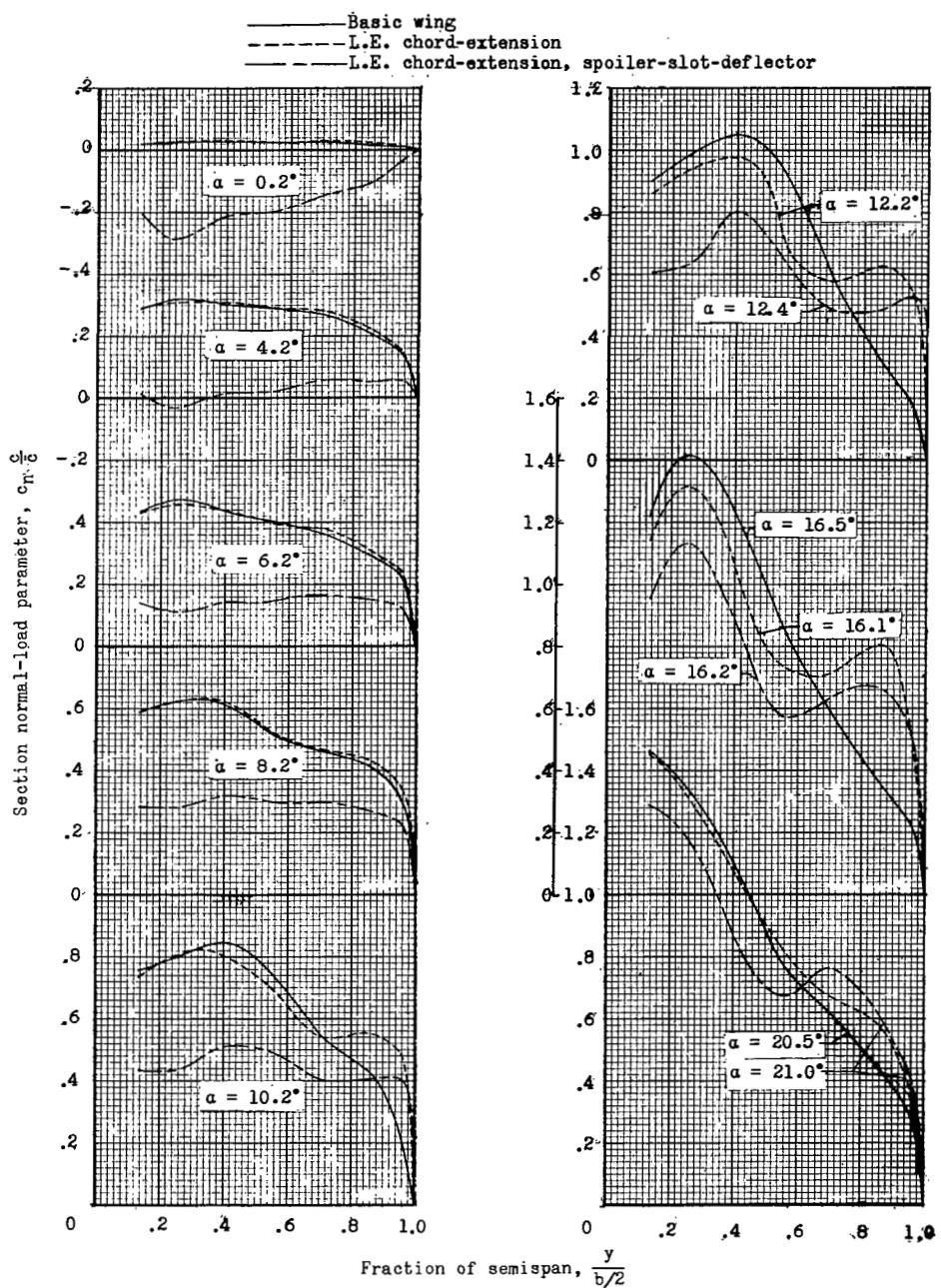


Figure 5.- Wing semispan load distributions for the basic model and leading-edge chord-extension configurations with and without the spoiler-slot-deflector aileron.

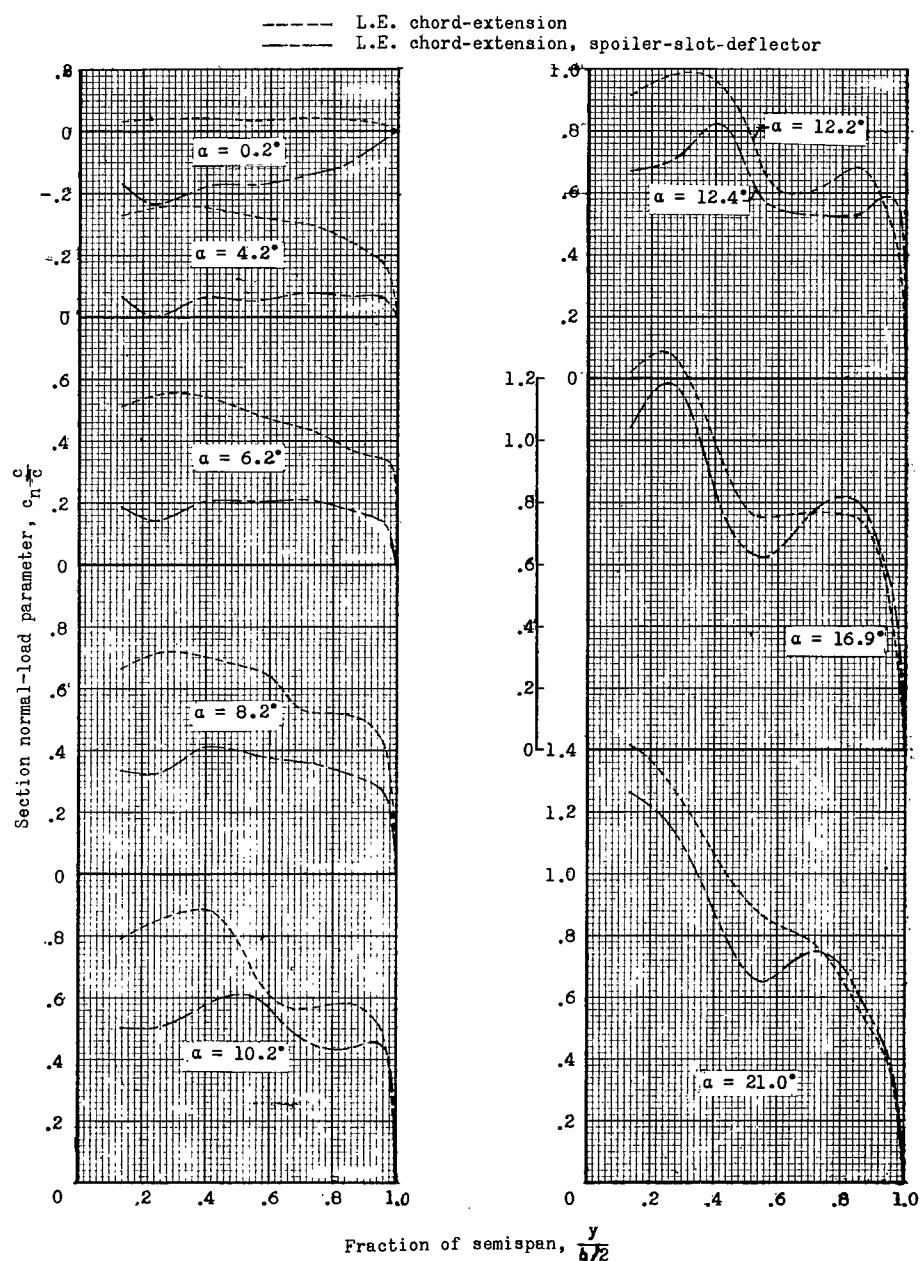
(b) $M = 0.85$.

Figure 5.- Continued.

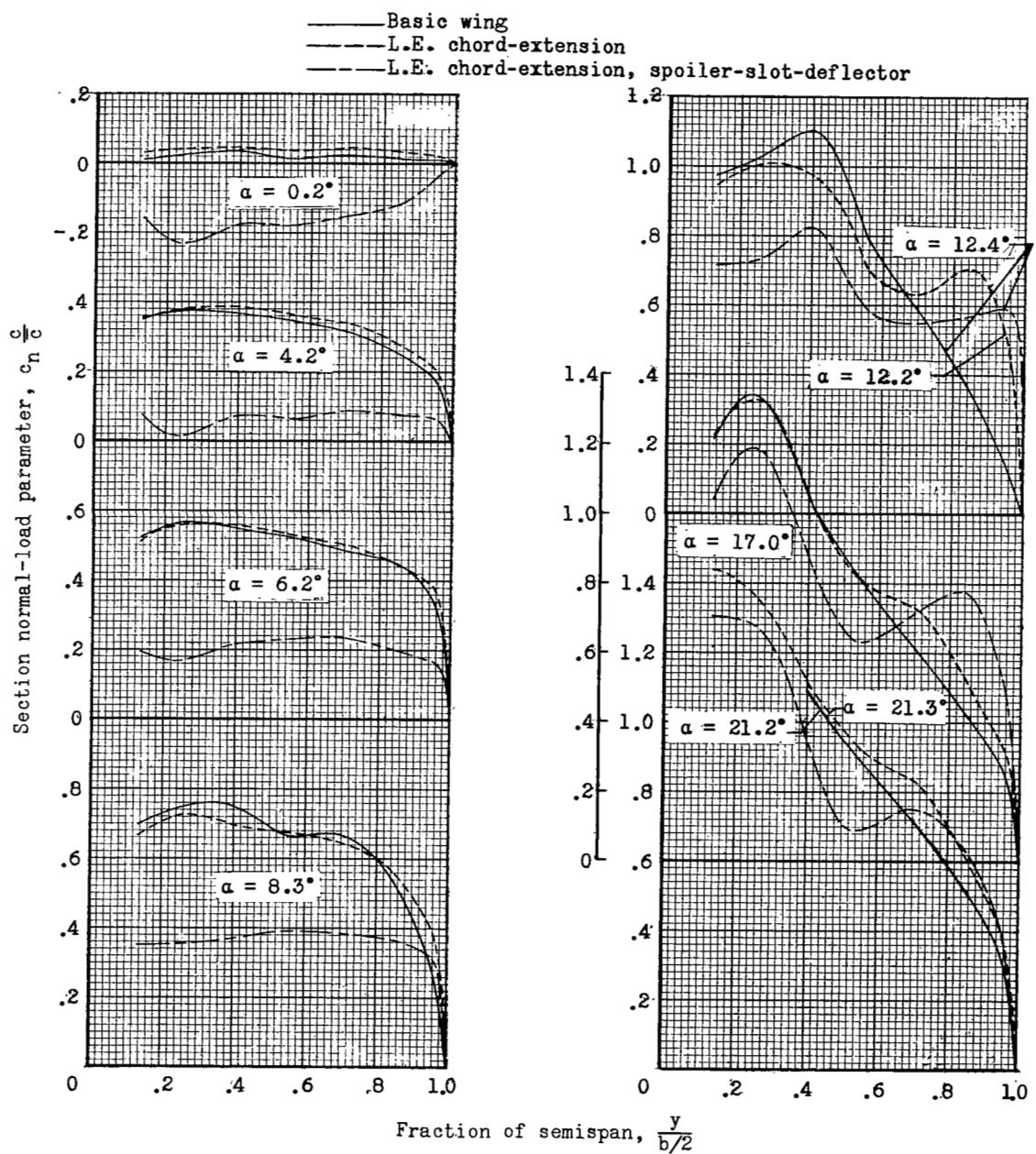
(c) $M = 0.90.$

Figure 5.- Continued.

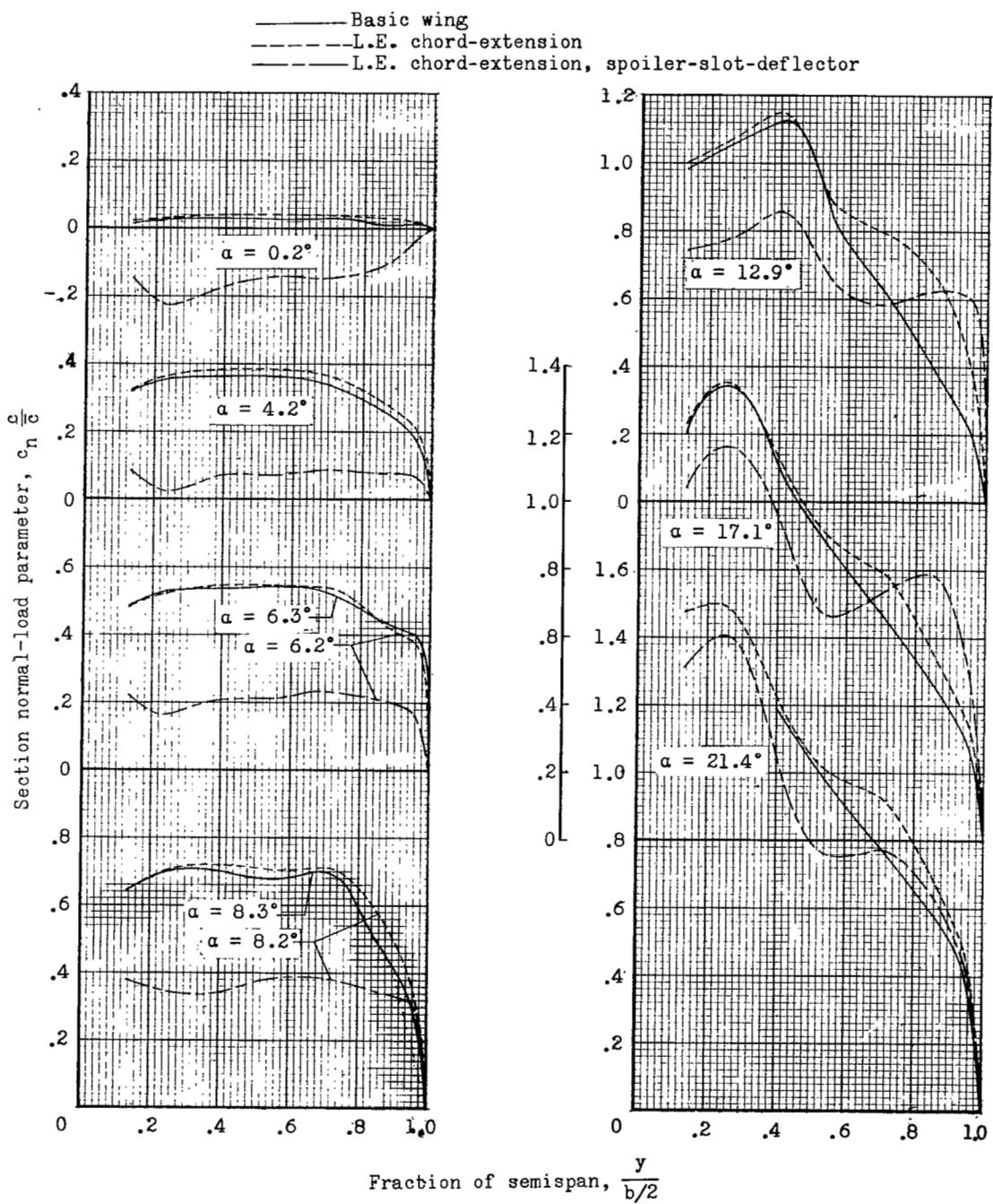
(d) $M = 0.94$.

Figure 5.- Continued.

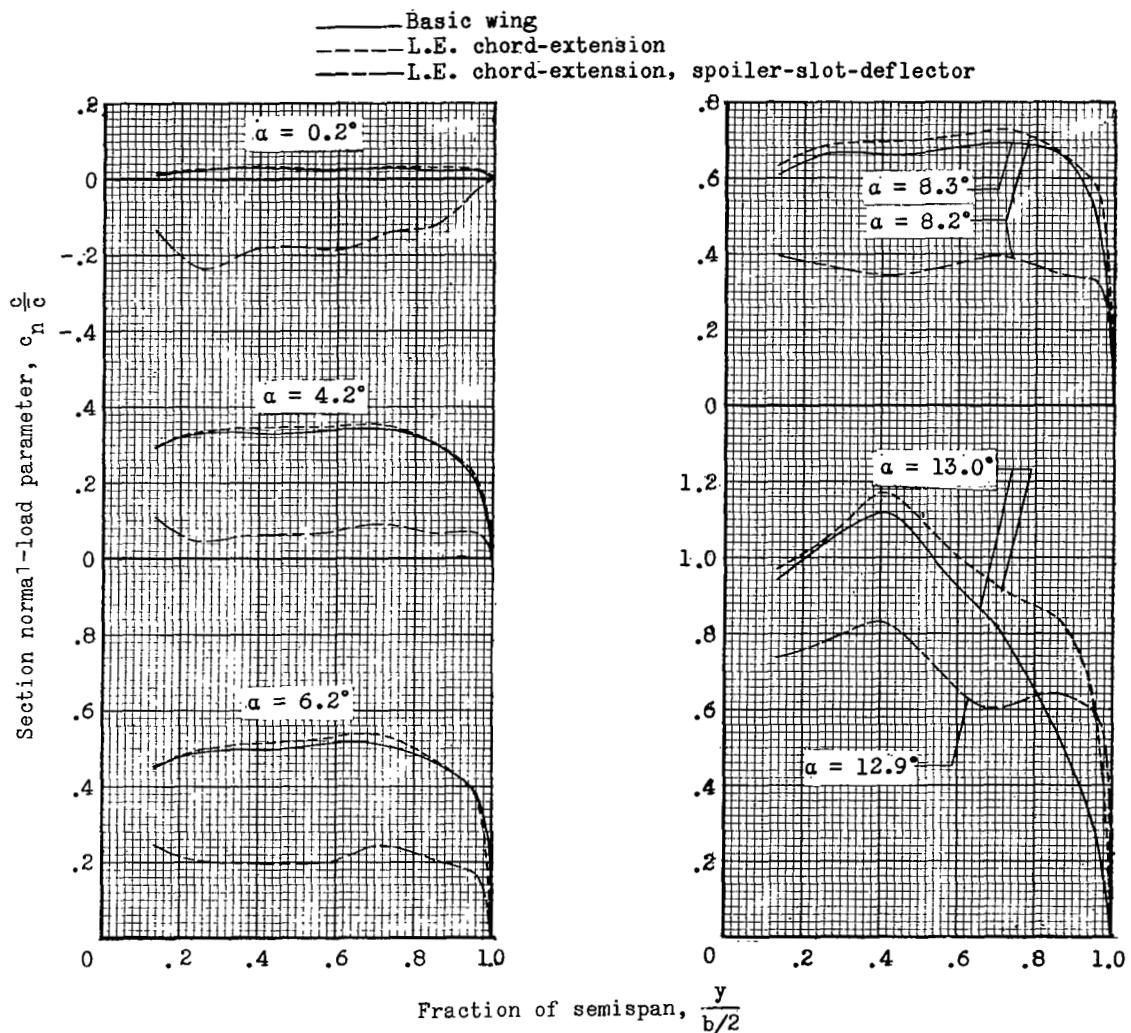
(e) $M = 0.98$.

Figure 5.- Continued.

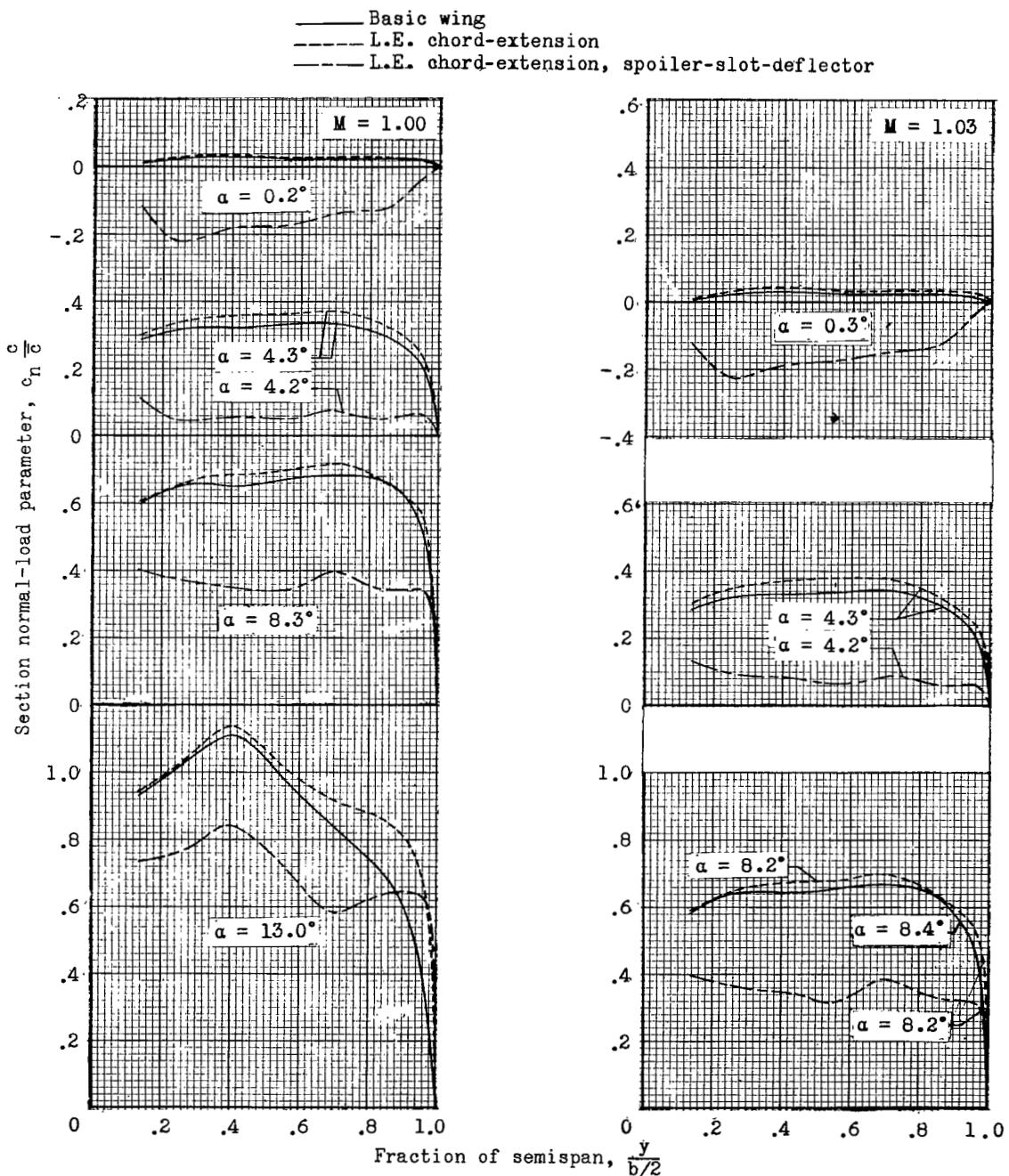
(f) $M = 1.00$ and 1.03 .

Figure 5.- Concluded.

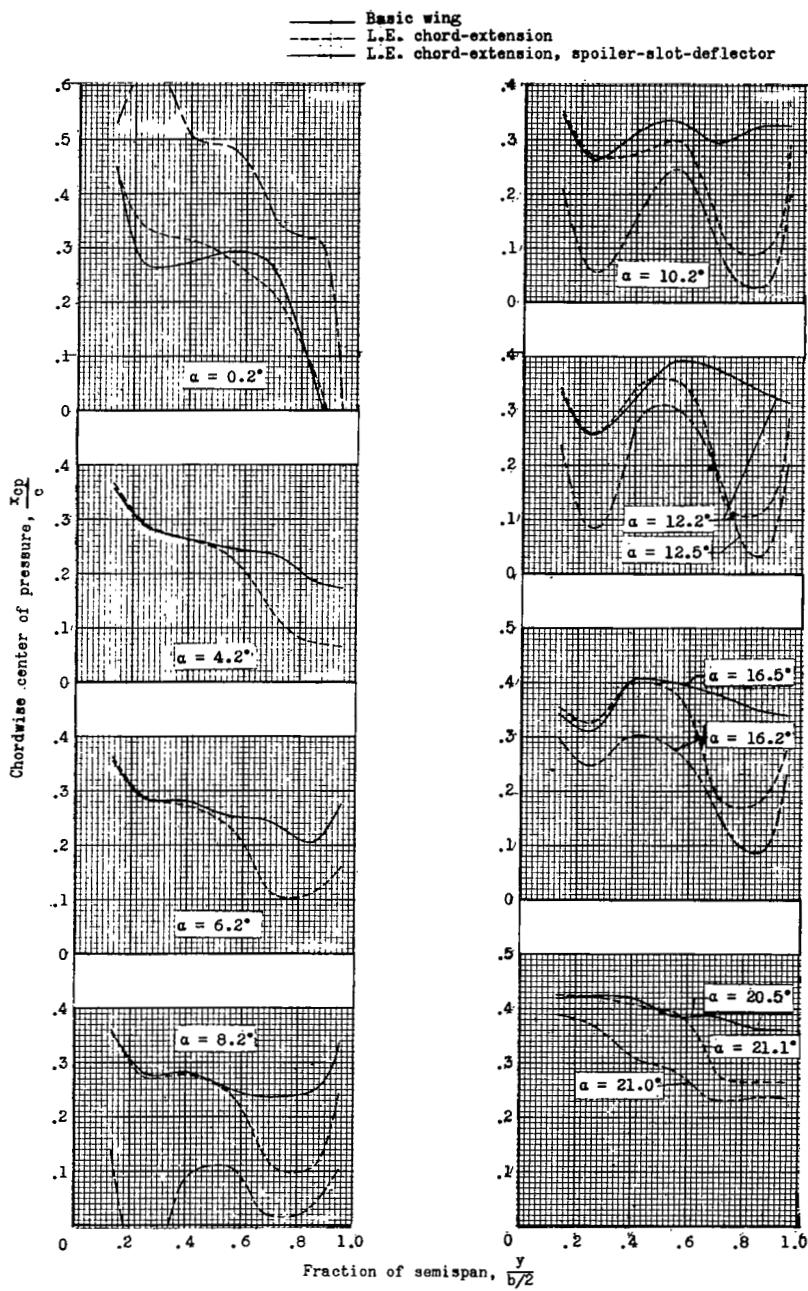


Figure 6.- Wing section centers of pressure for the basic model and leading-edge chord-extension configurations with and without the spoiler-slot-deflector aileron.

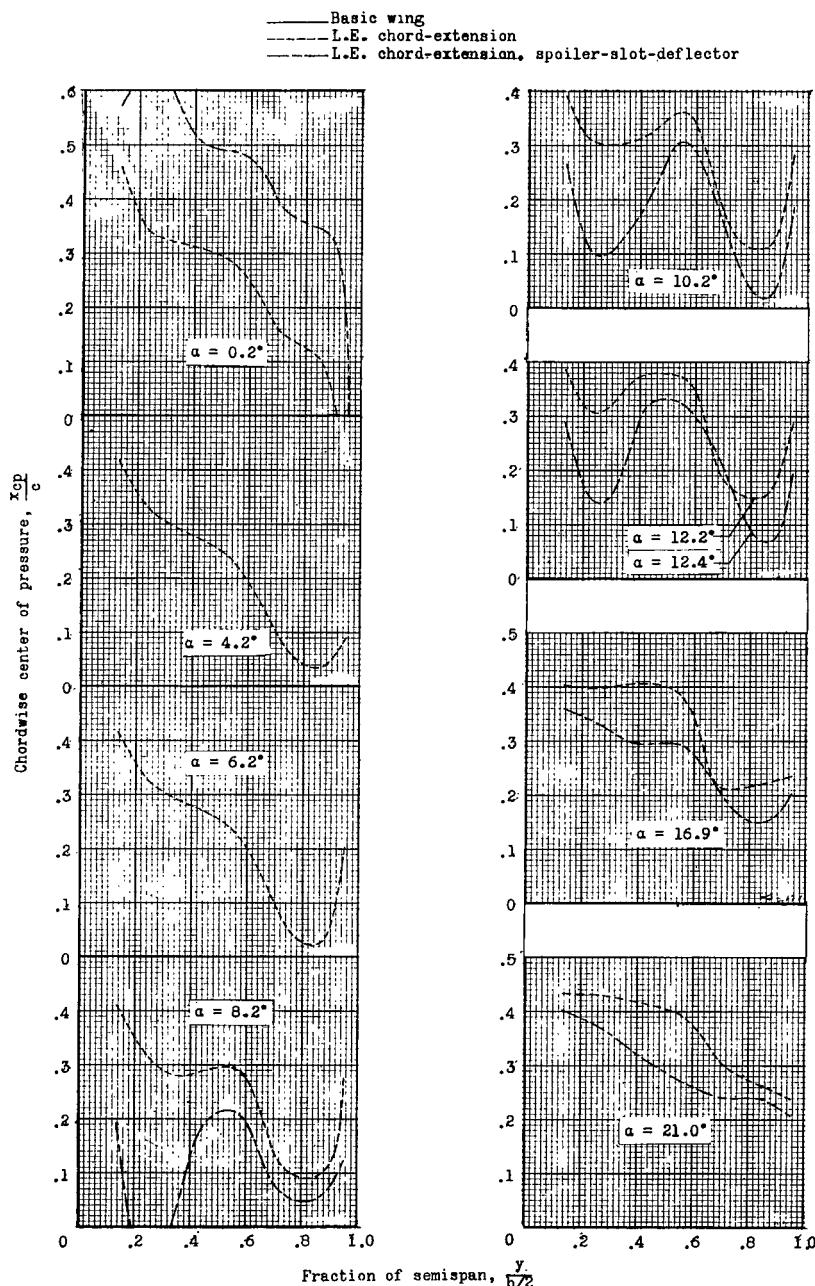
(b) $M = 0.85$.

Figure 6.- Continued.

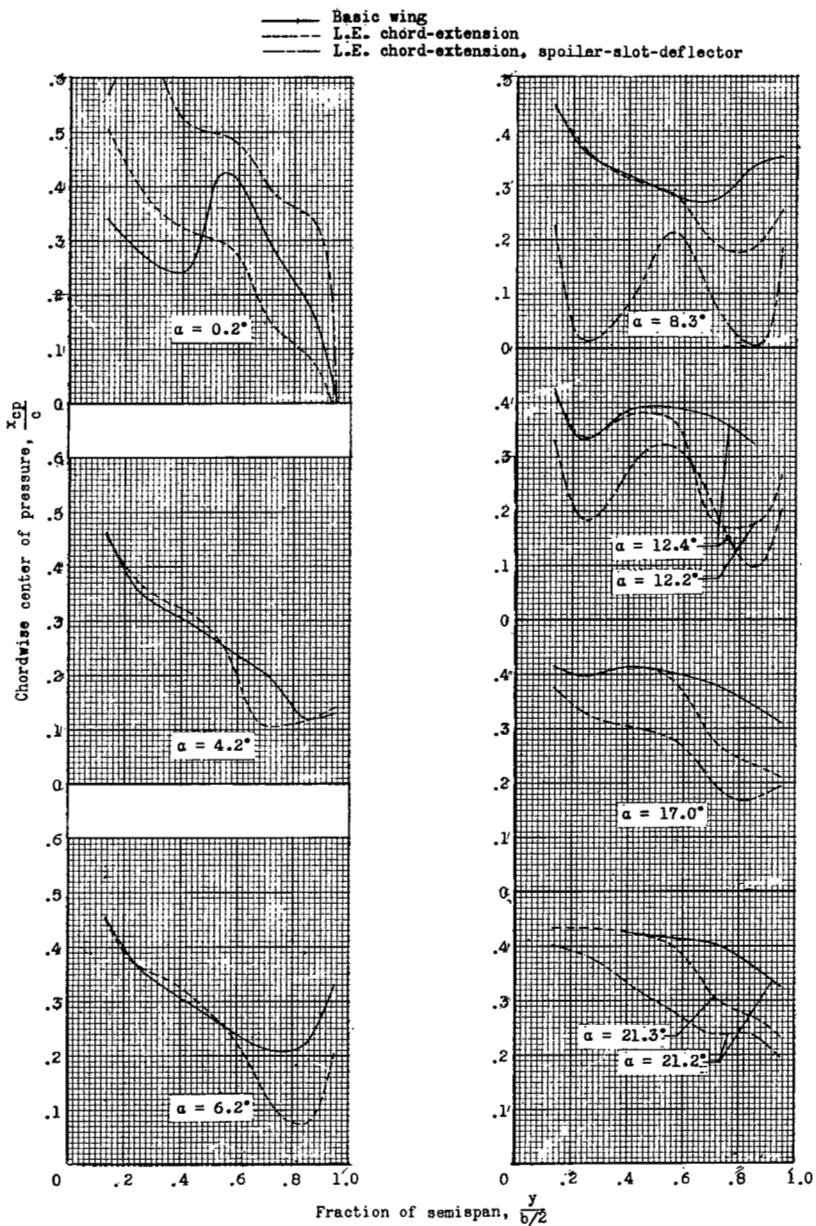
(c) $M = 0.90.$

Figure 6.- Continued.

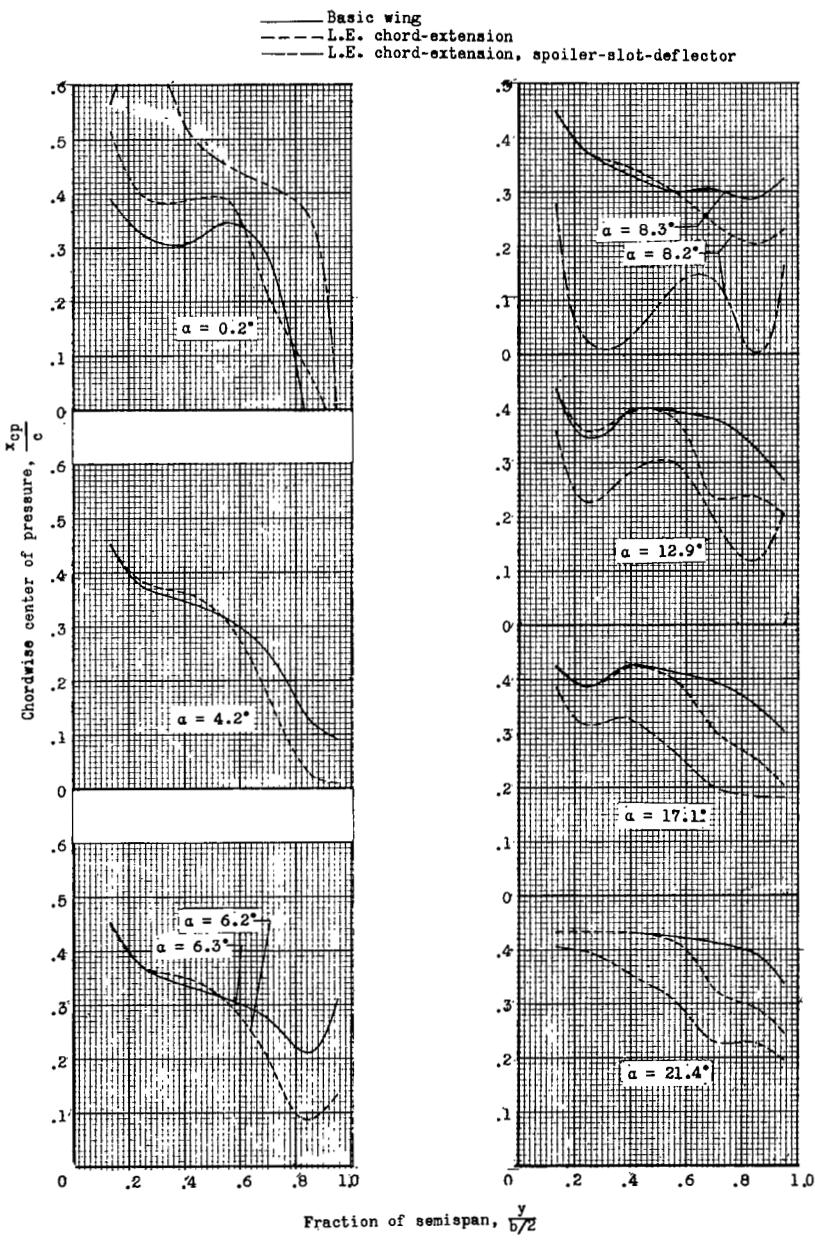
(d) $M = 0.94$.

Figure 6.- Continued.

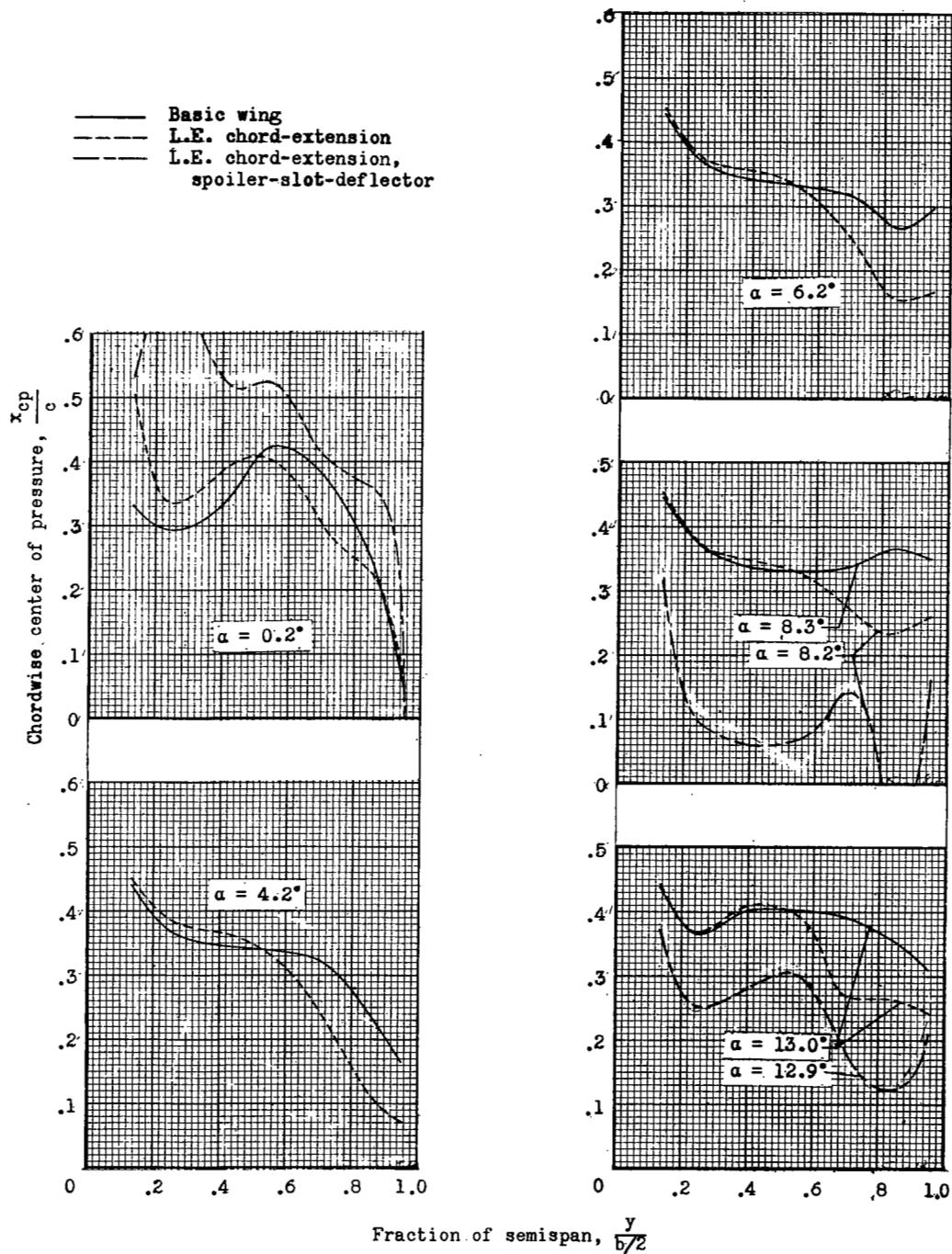
(e) $M = 0.98$.

Figure 6.- Continued.

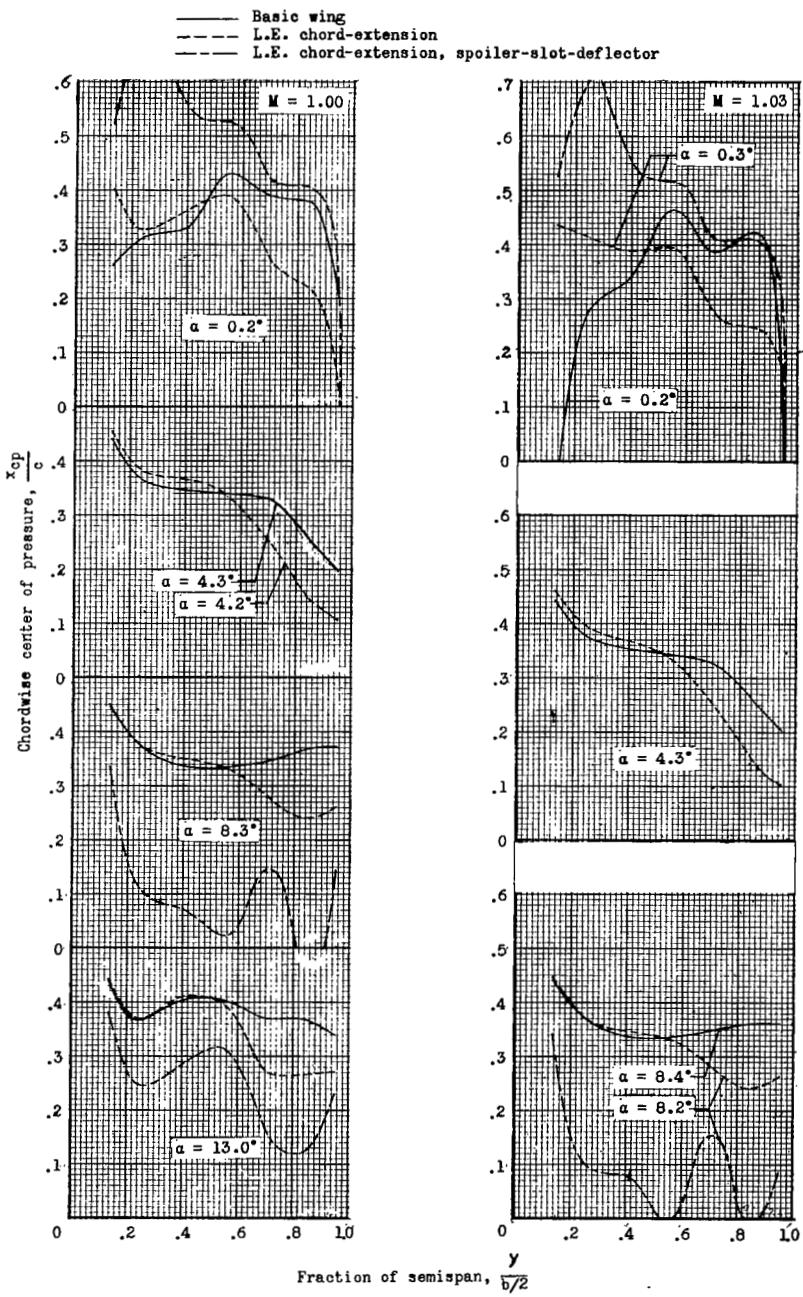
(f) $M = 1.00$ and 1.03 .

Figure 6.- Concluded.

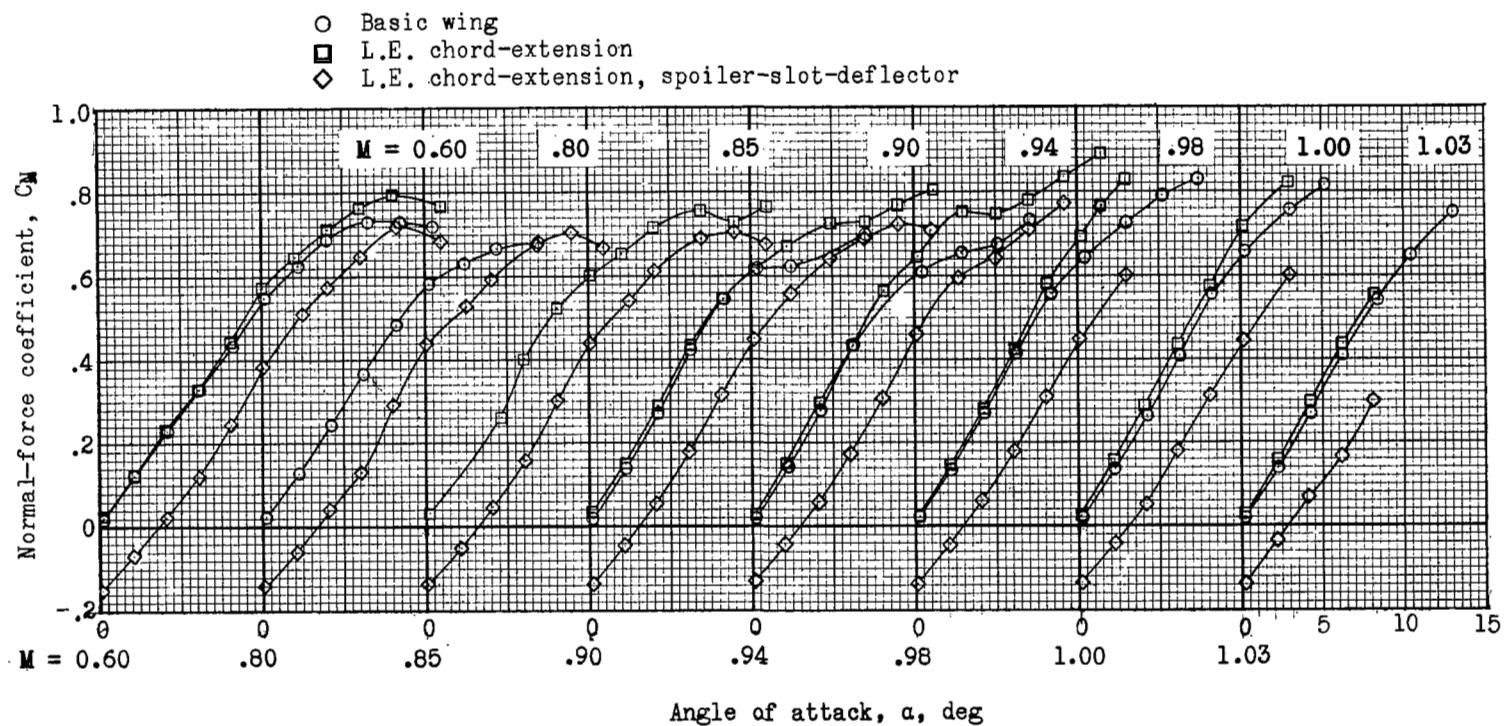


Figure 7.- Wing normal-force characteristics for the basic model and leading-edge chord-extension configurations with and without the spoiler-slot-deflector aileron.

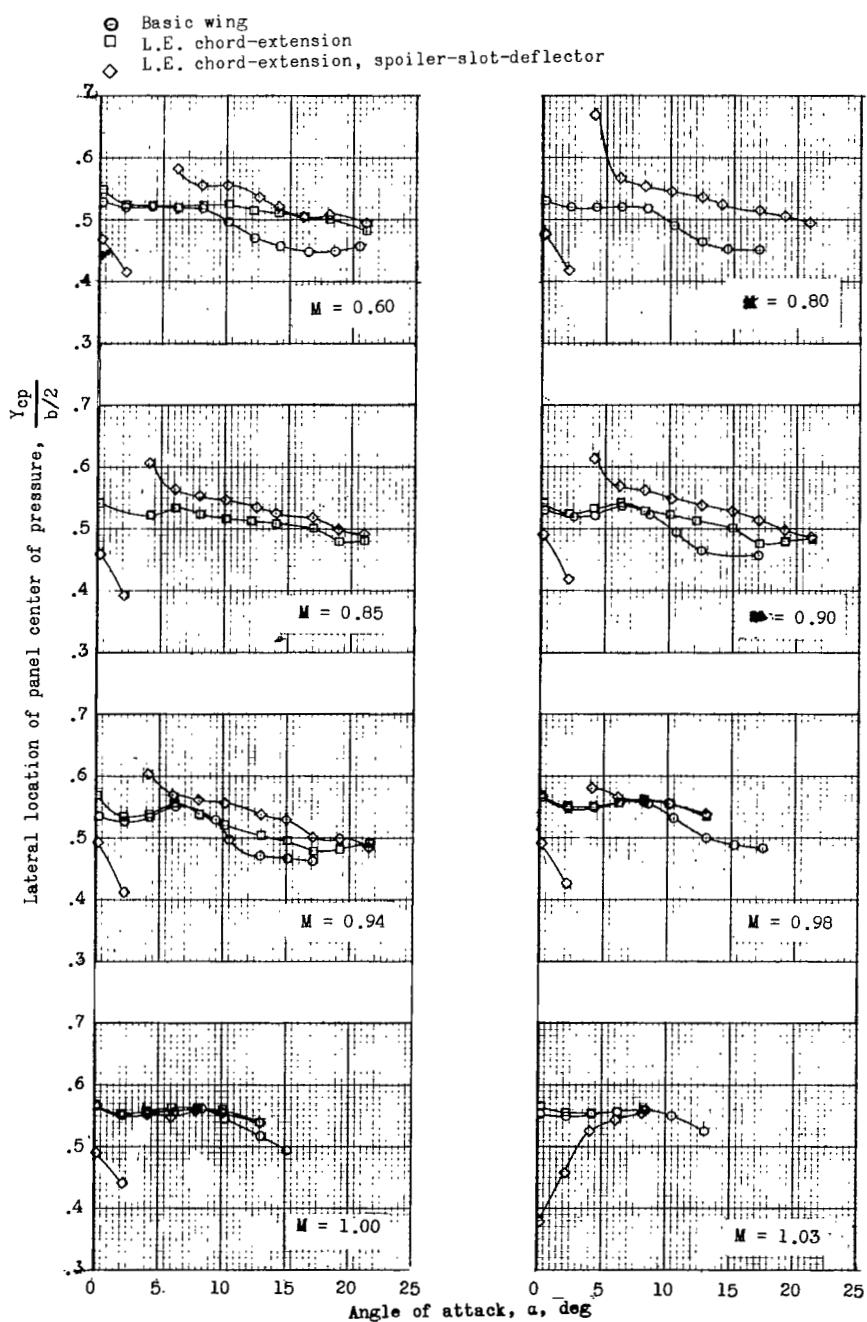


Figure 8.- Lateral position of wing center of pressure for the basic model and leading-edge chord-extension configurations with and without the spoiler-slot-deflector aileron.

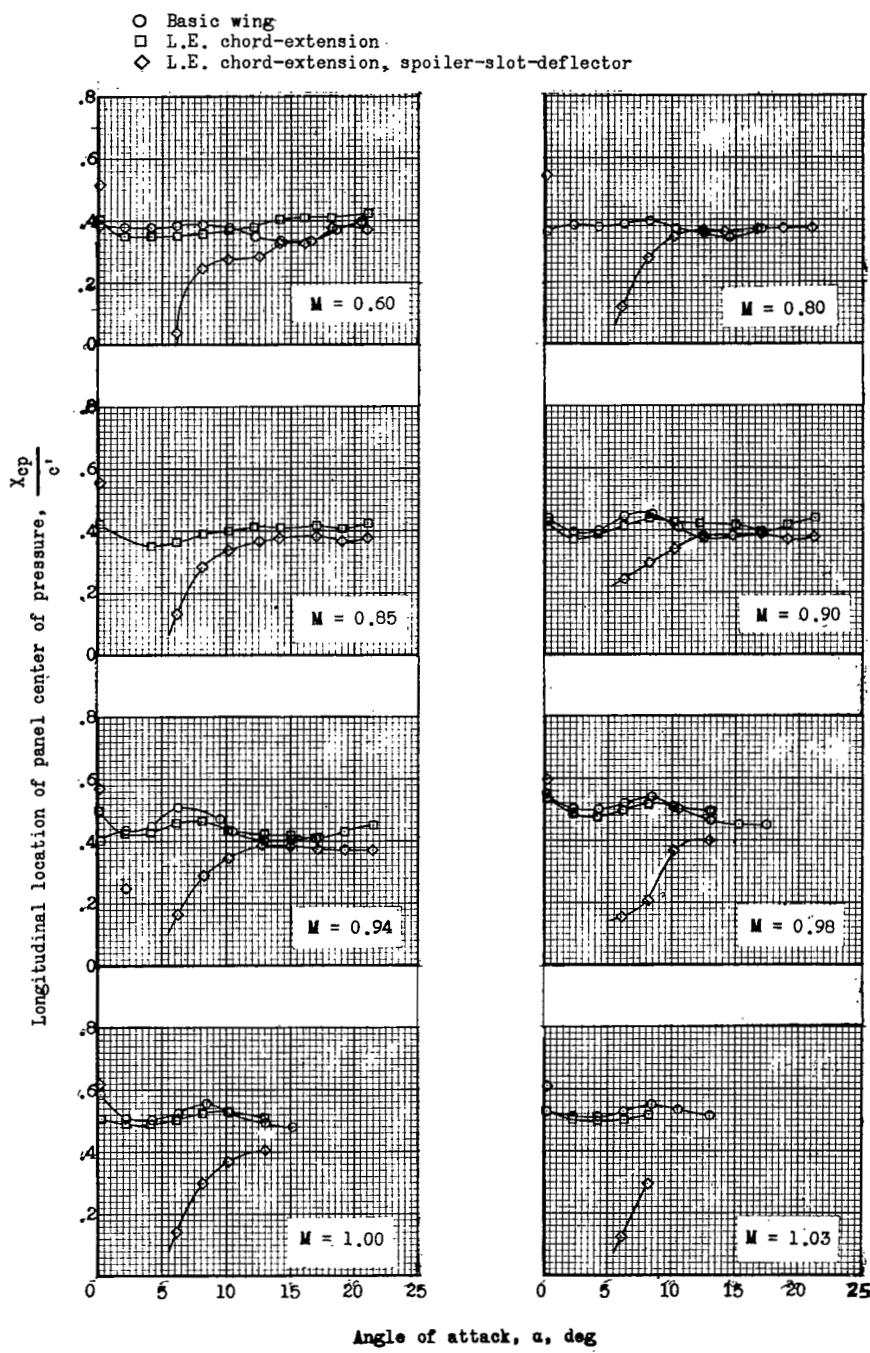


Figure 9.- Longitudinal position of wing center of pressure for the basic model and leading-edge chord-extension configurations with and without the spoiler-slot-deflector aileron.

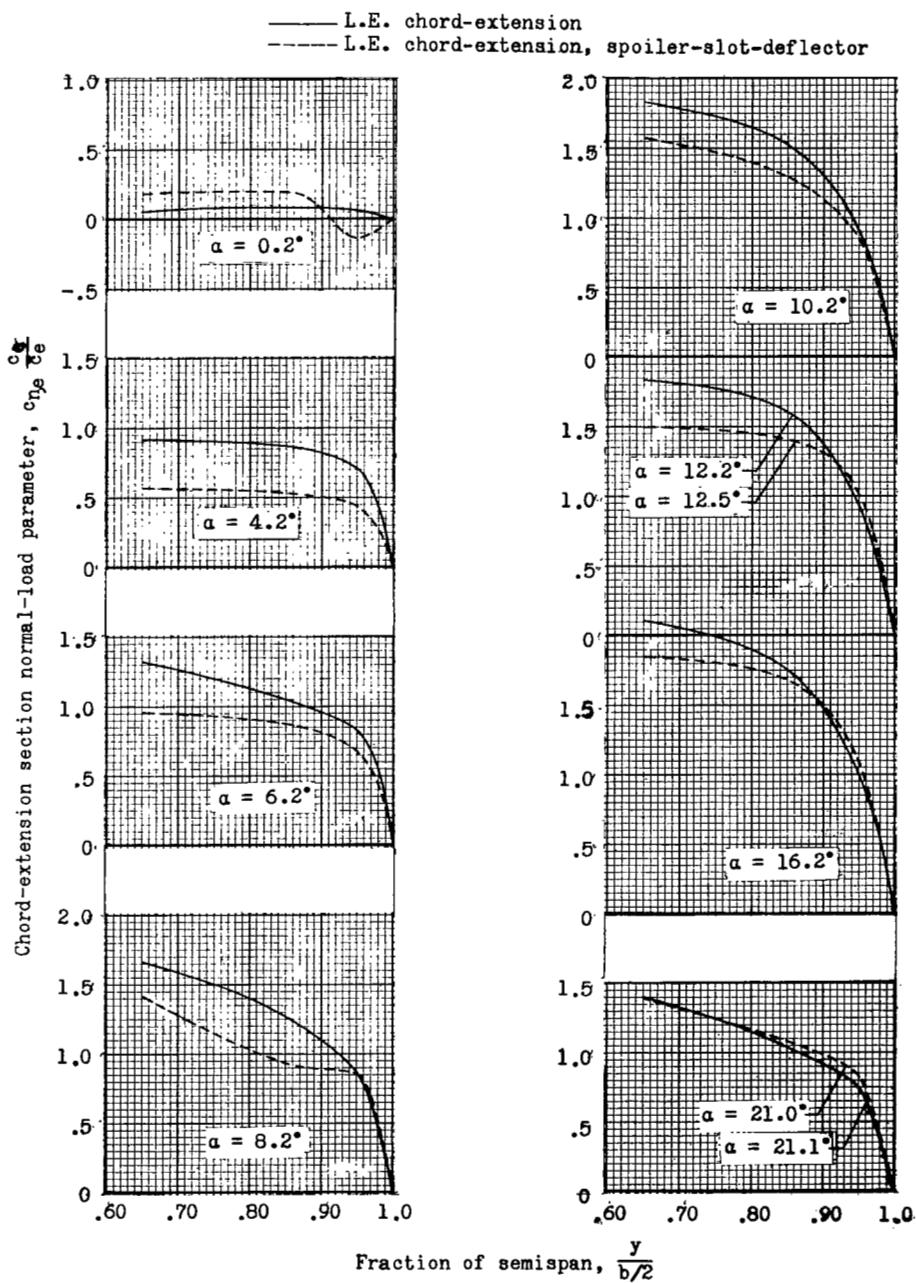


Figure 10.- Spanwise load distributions for the leading-edge chord-extensions.

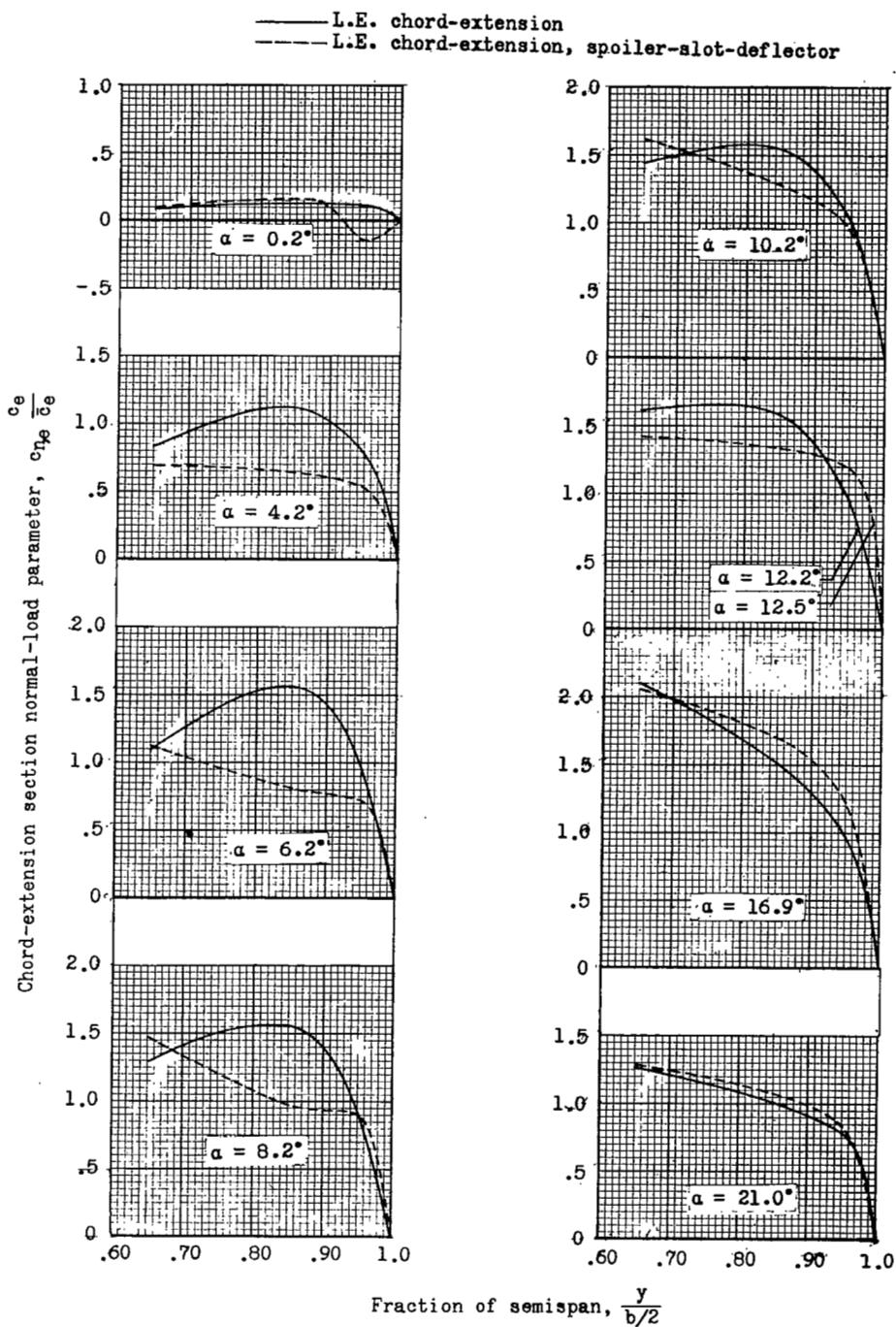
(b) $M = 0.85$.

Figure 10.- Continued.

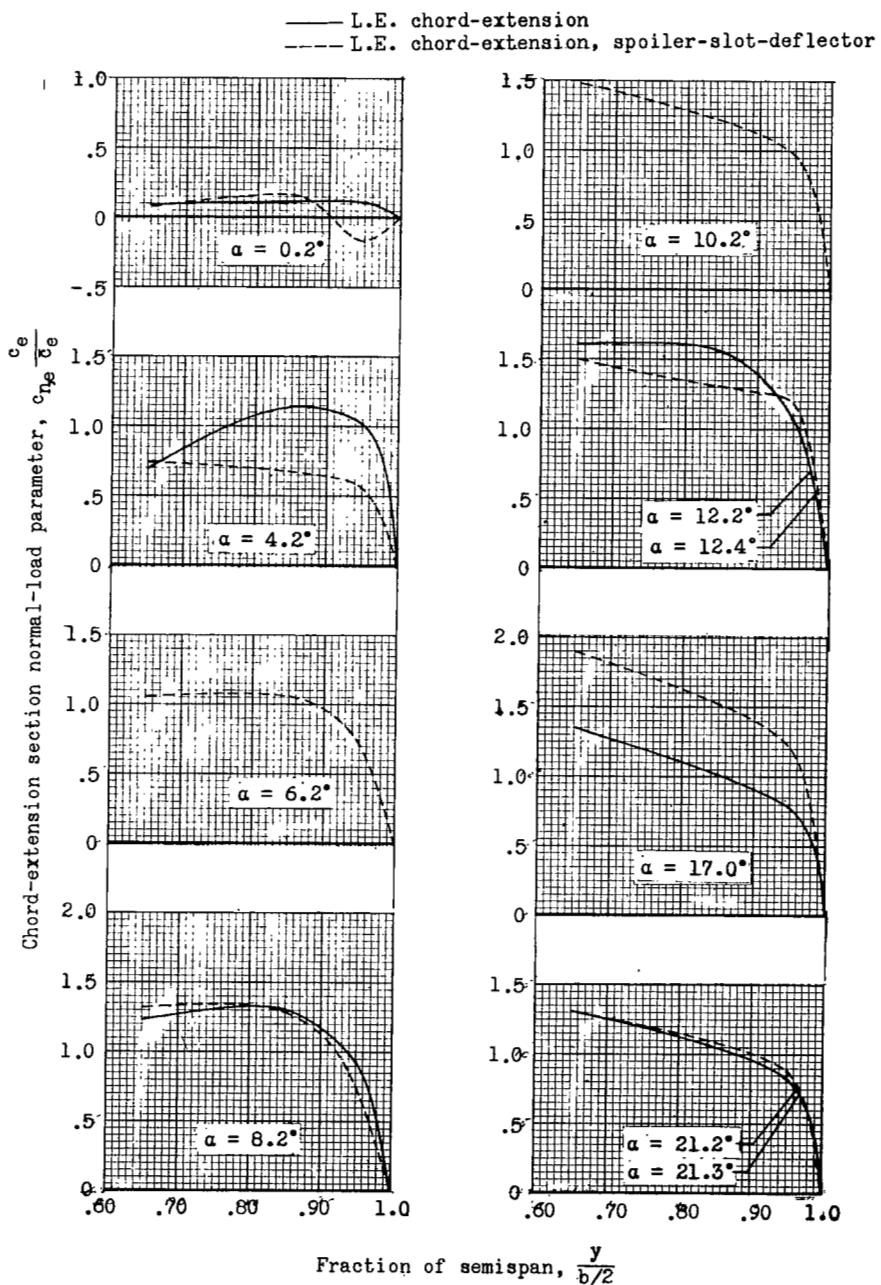
(c) $M = 0.90$.

Figure 10.- Continued.

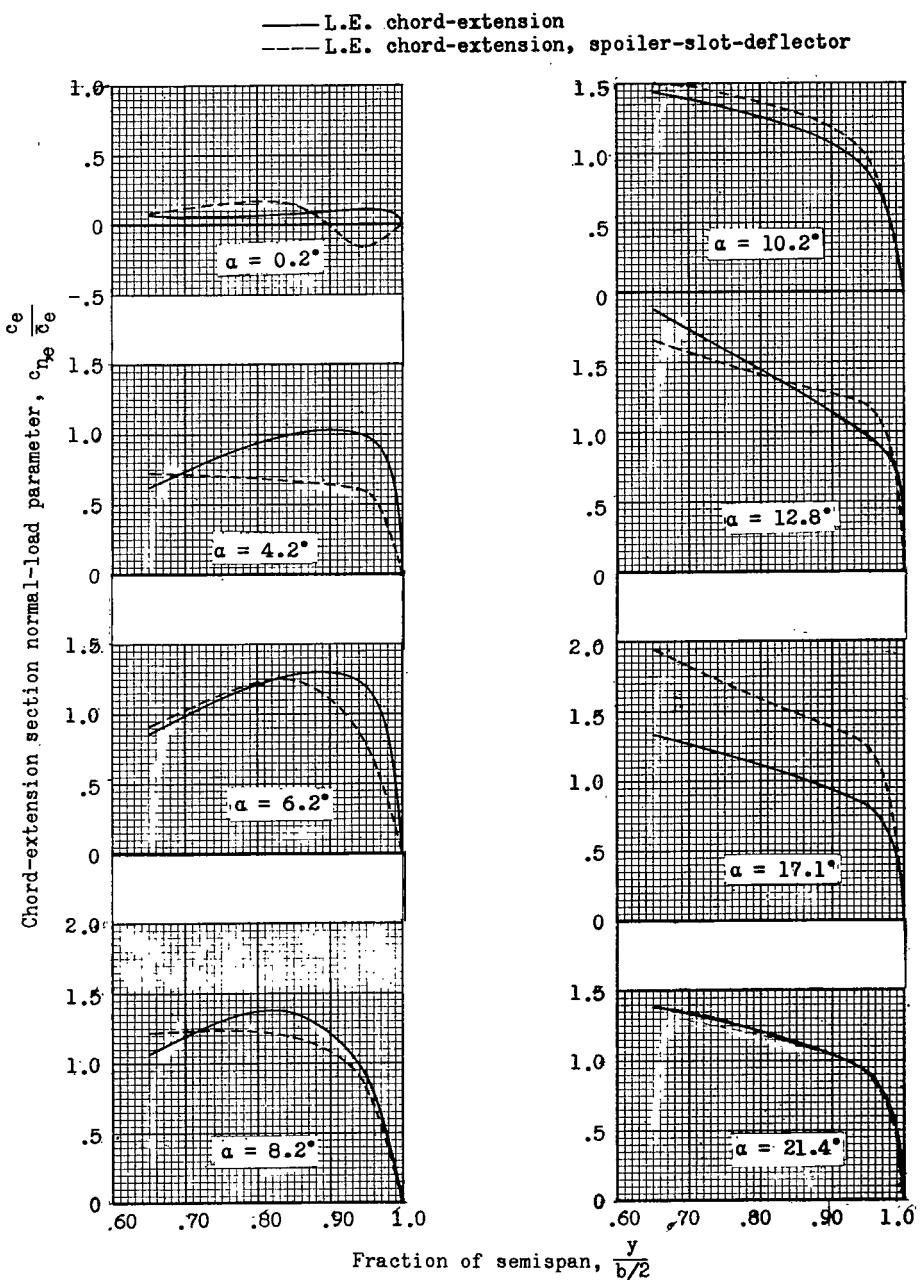
(d) $M = 0.94$.

Figure 10.- Continued.

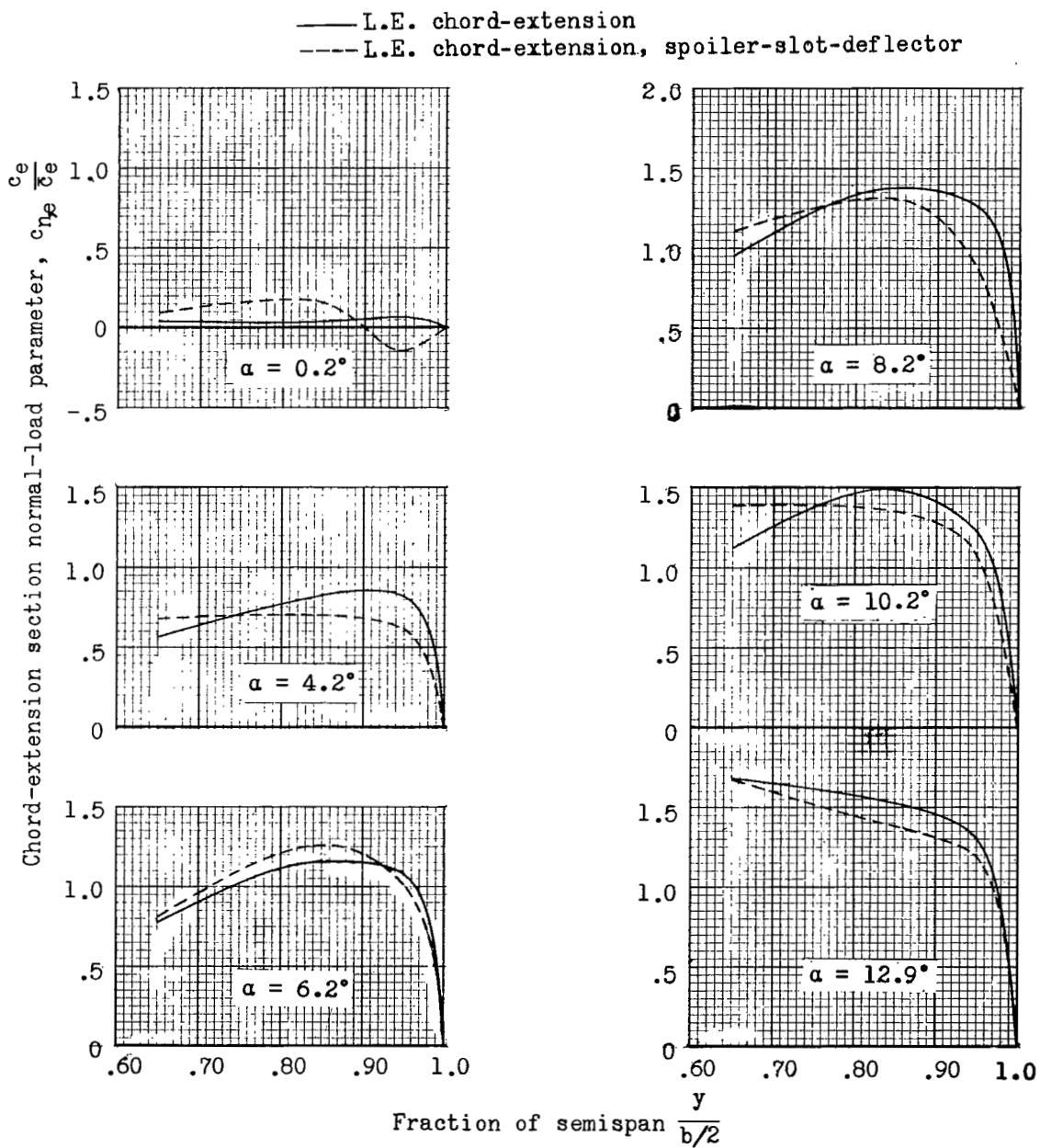
(e) $M = 0.98$.

Figure 10.- Continued.

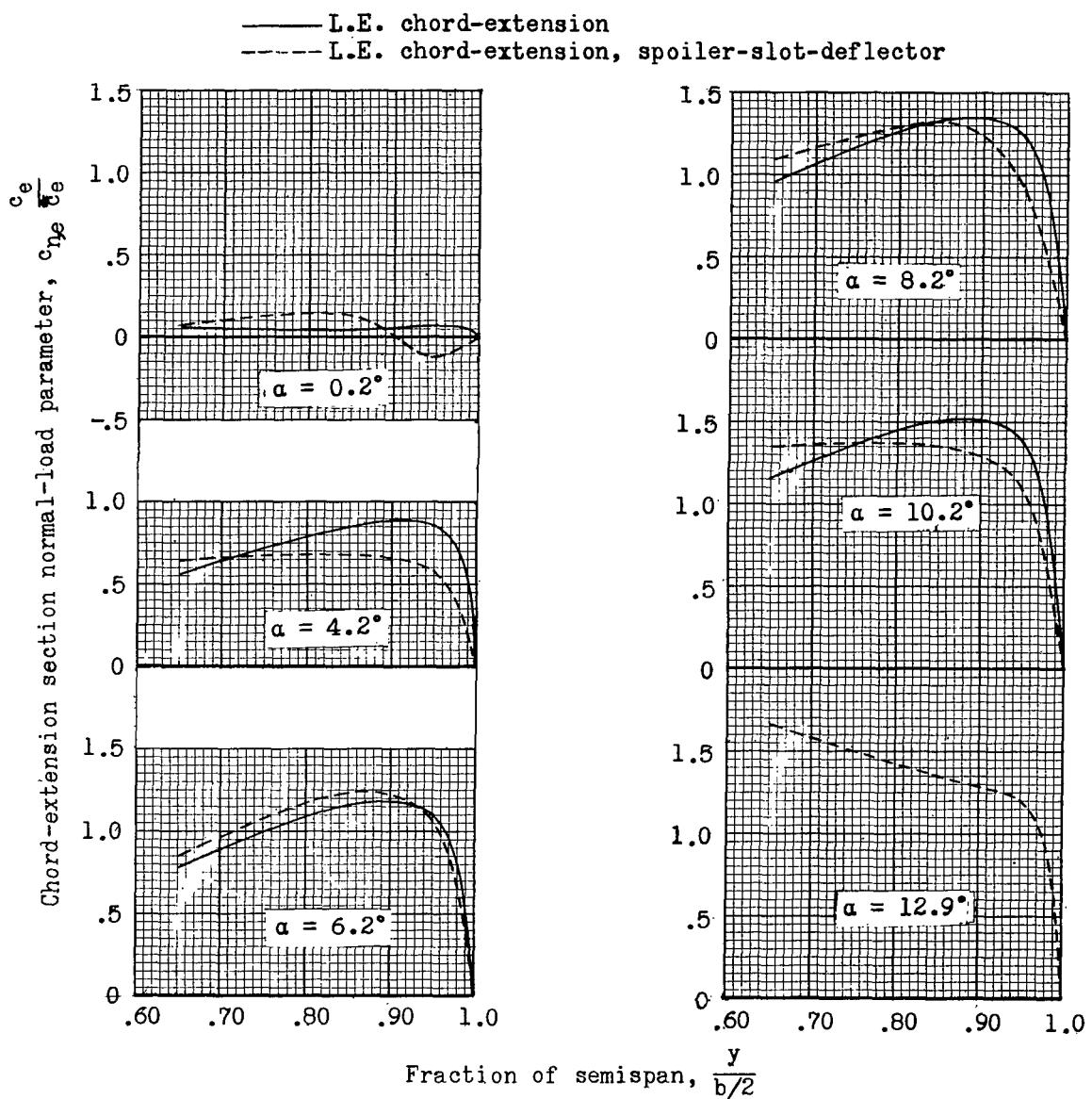
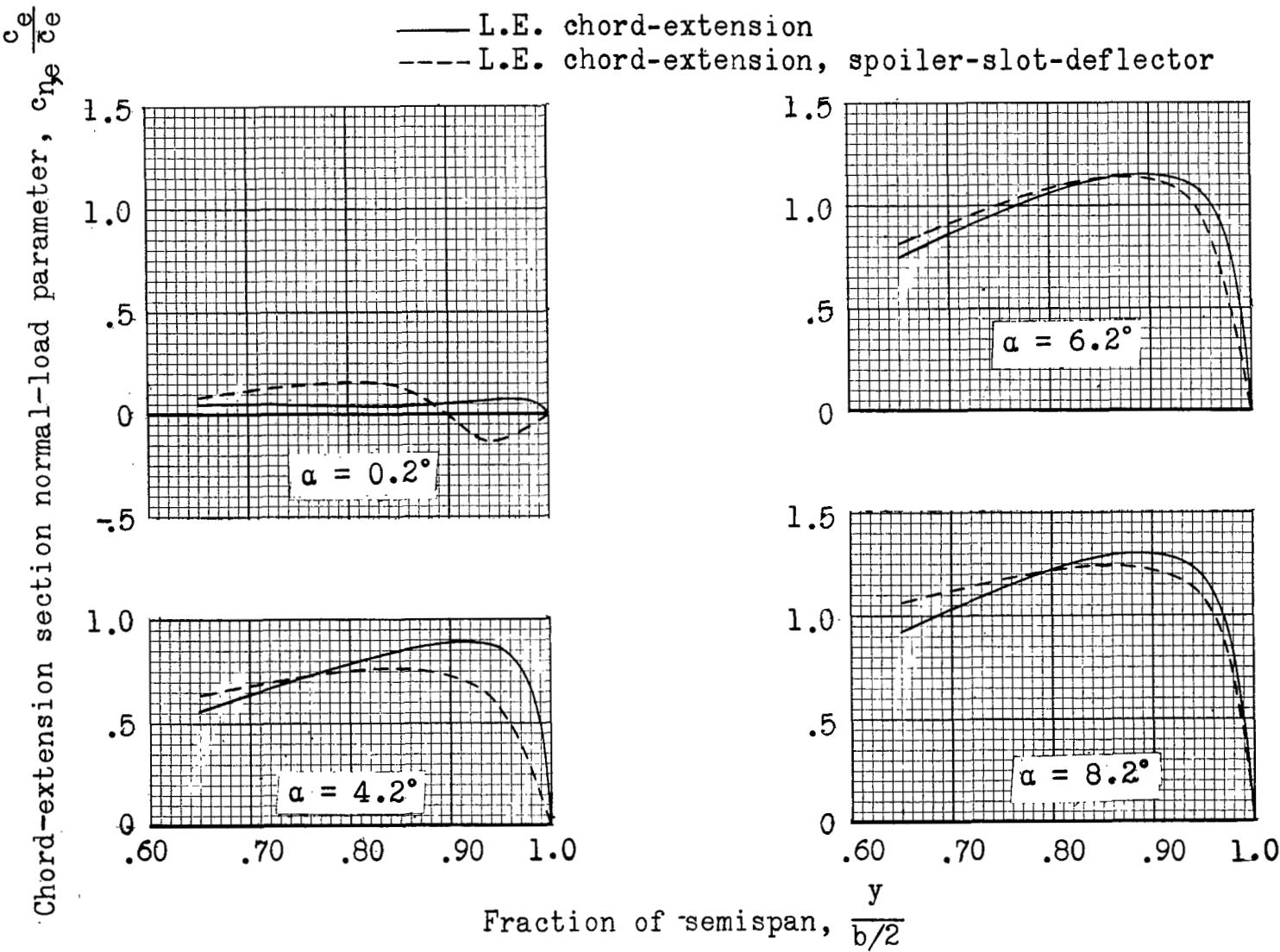
(f) $M = 1.00$.

Figure 10.- Continued.



(g) $M = 1.03$.

Figure 10.- Concluded.

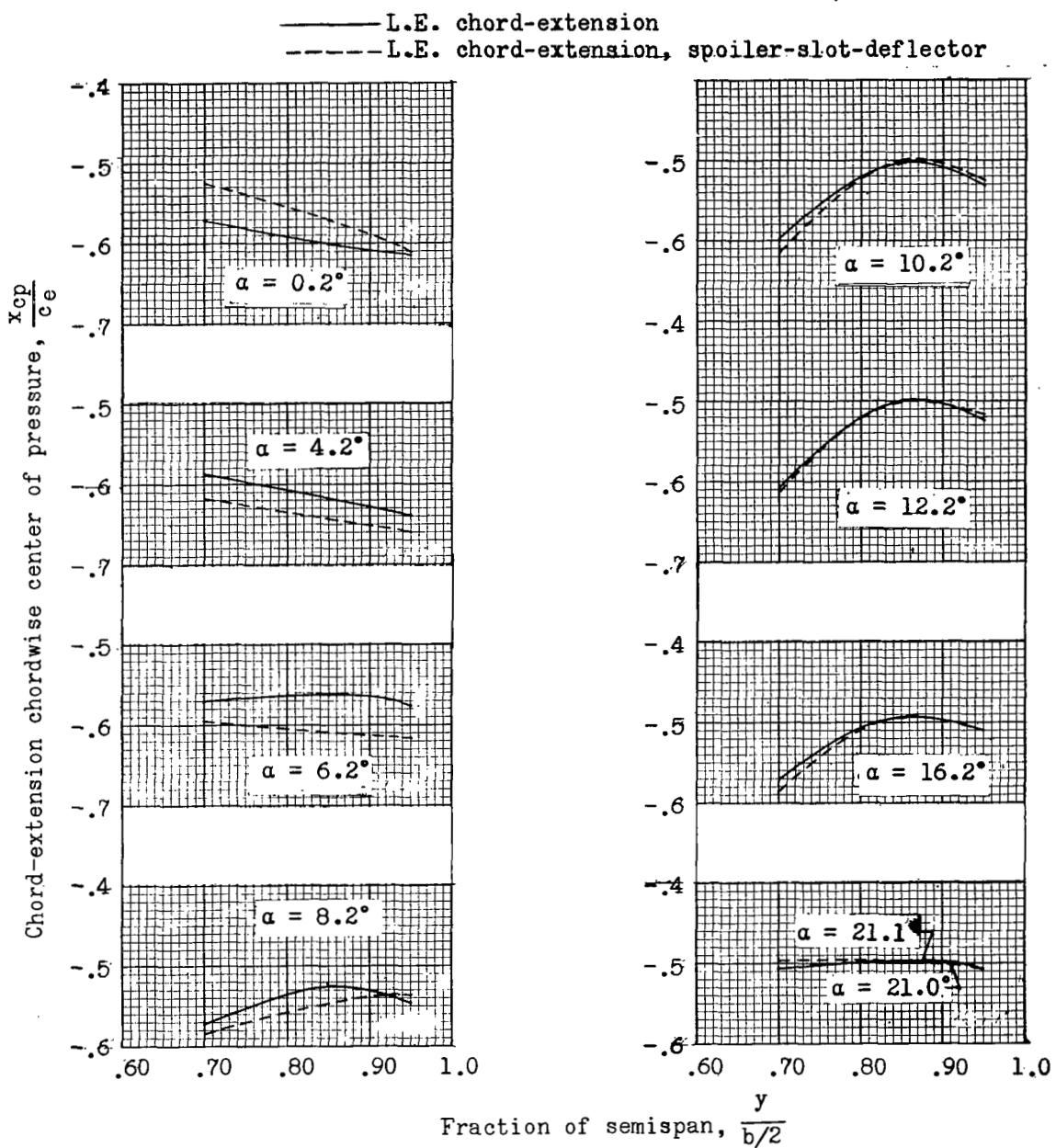
(a) $M = 0.60.$

Figure 11.-- Section centers of pressure for the leading-edge chord-extensions.

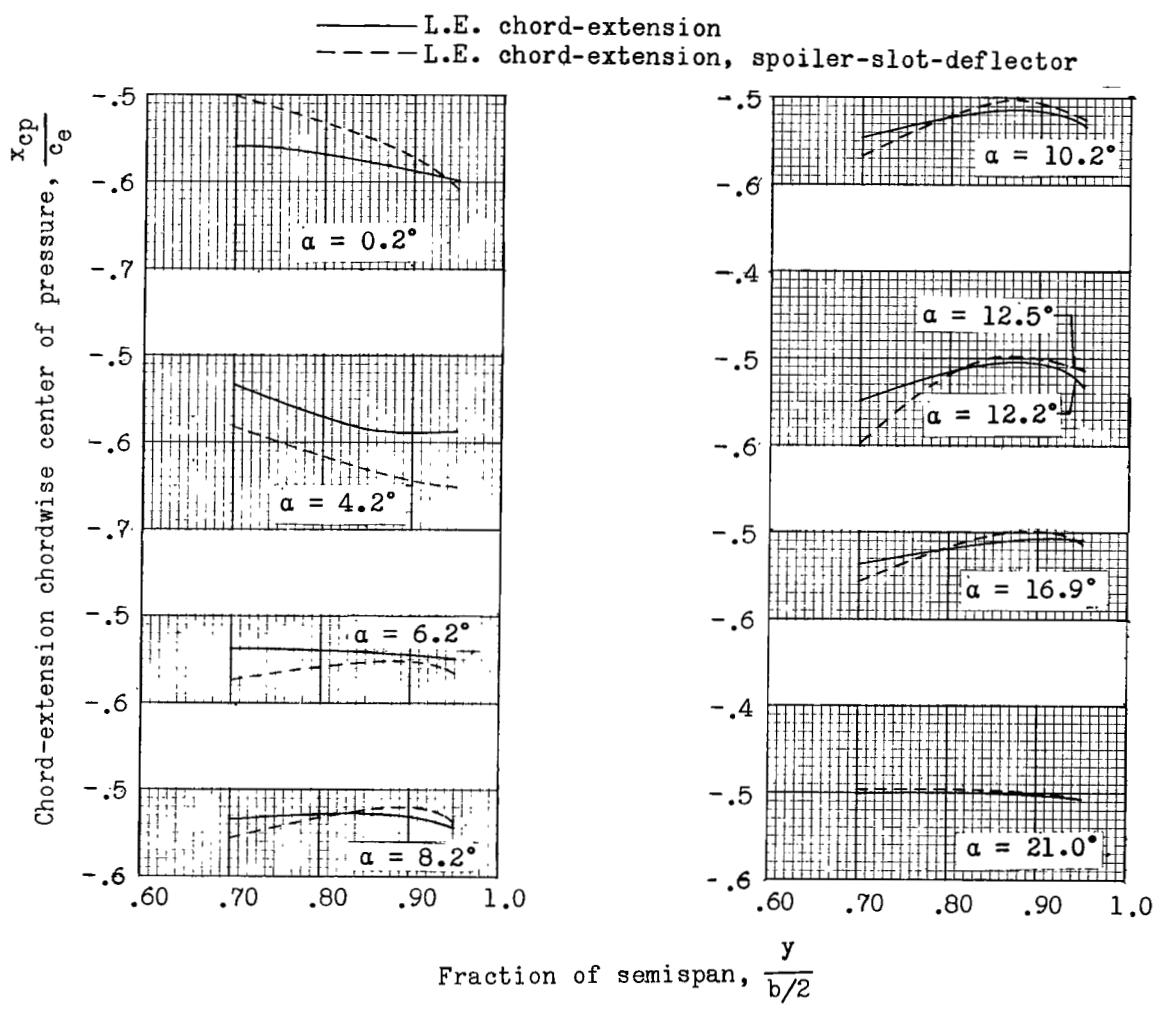
(b) $M = 0.85$.

Figure 11.- Continued.

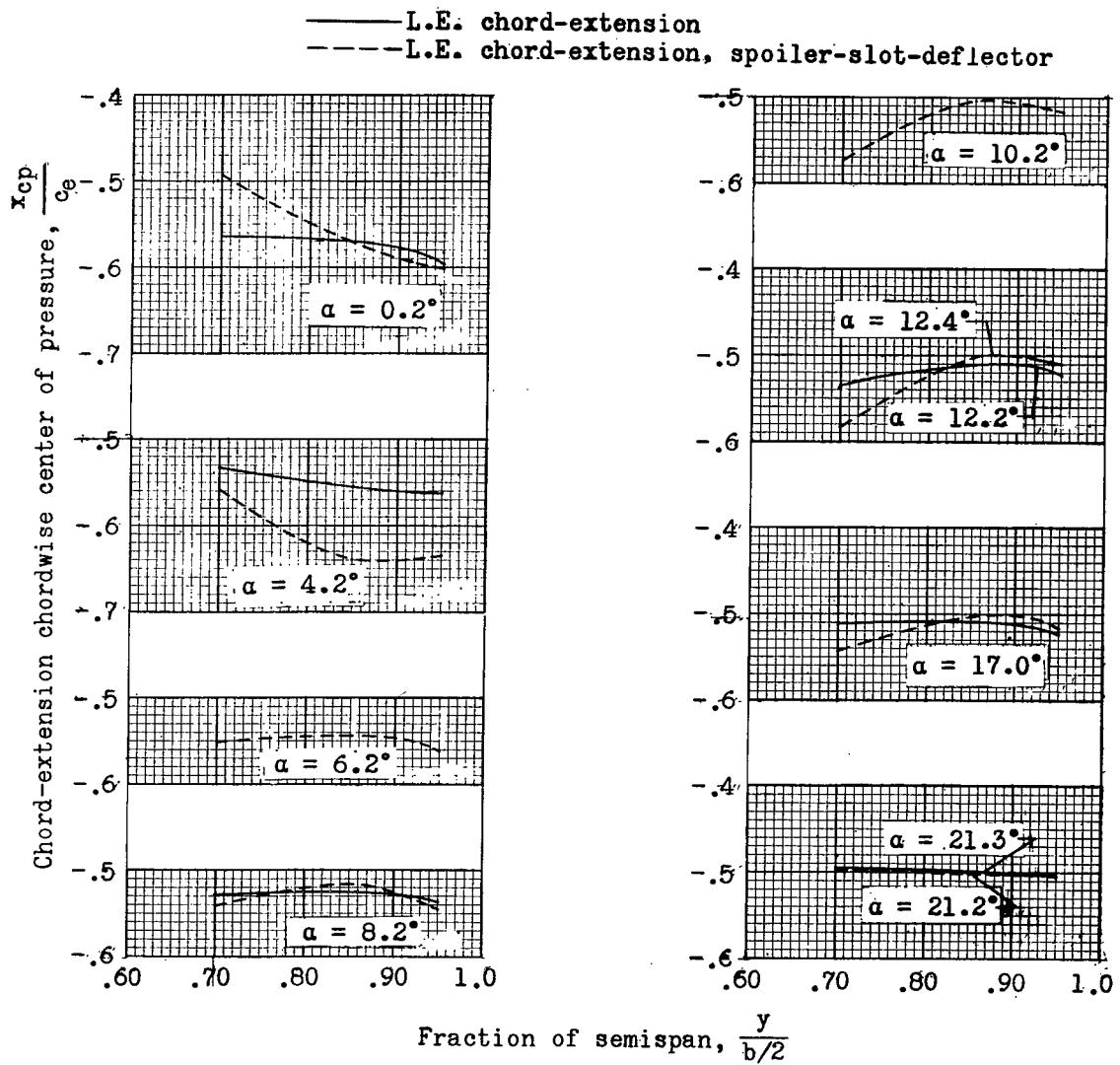
(c) $M = 0.90.$

Figure 11.- Continued.

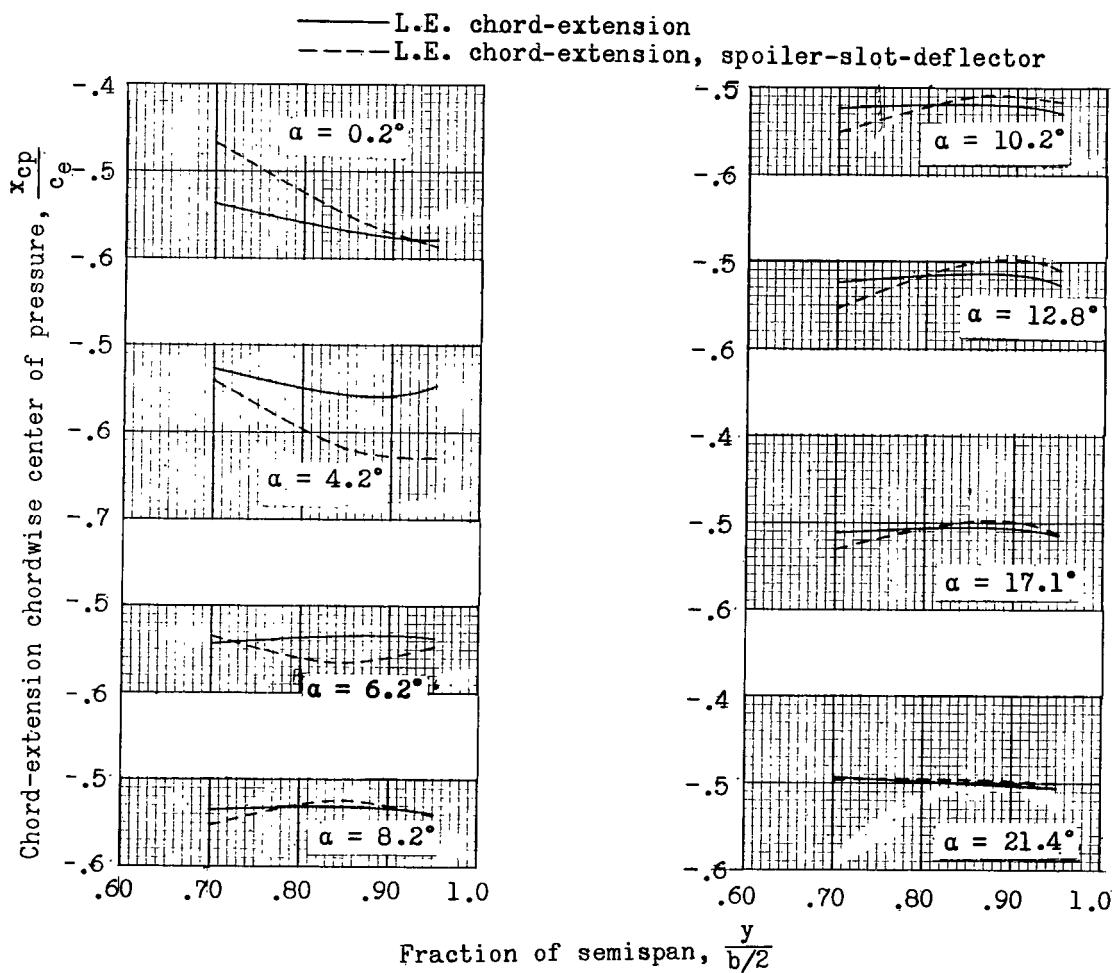
(d) $M = 0.94$.

Figure 11.- Continued.

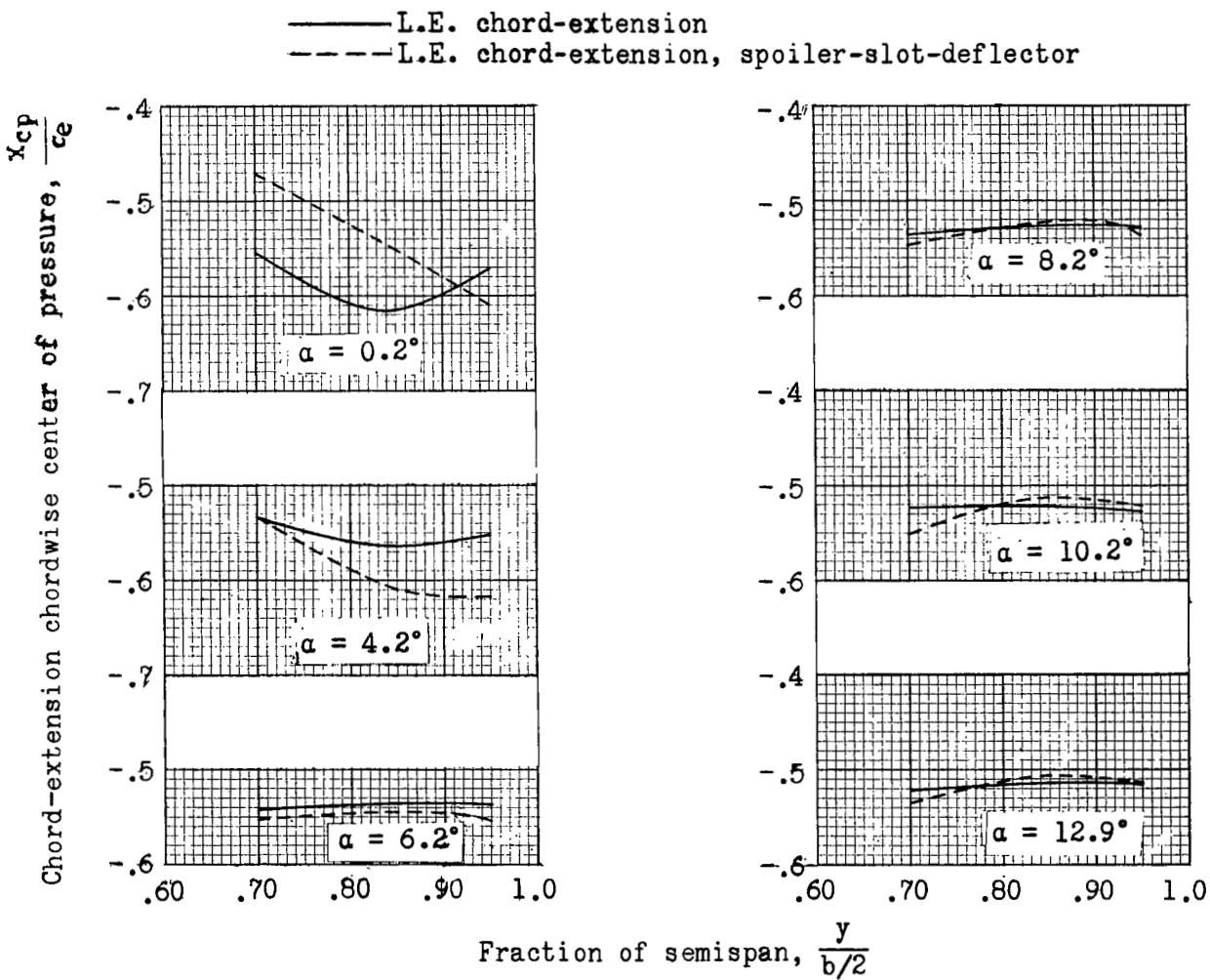
(e) $M = 0.98$.

Figure 11.- Continued.

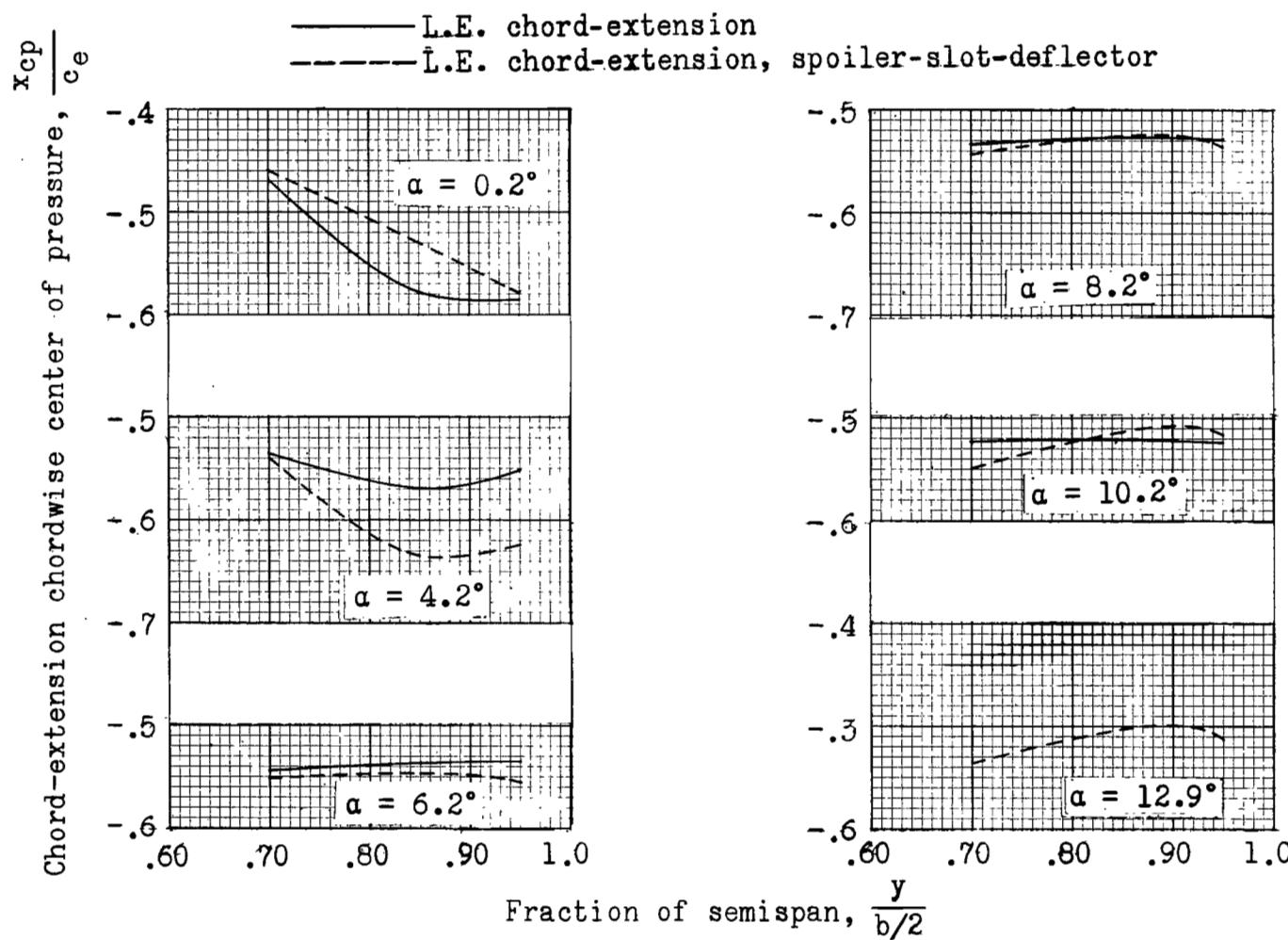
(f) $M = 1.00$.

Figure 11--Continued.

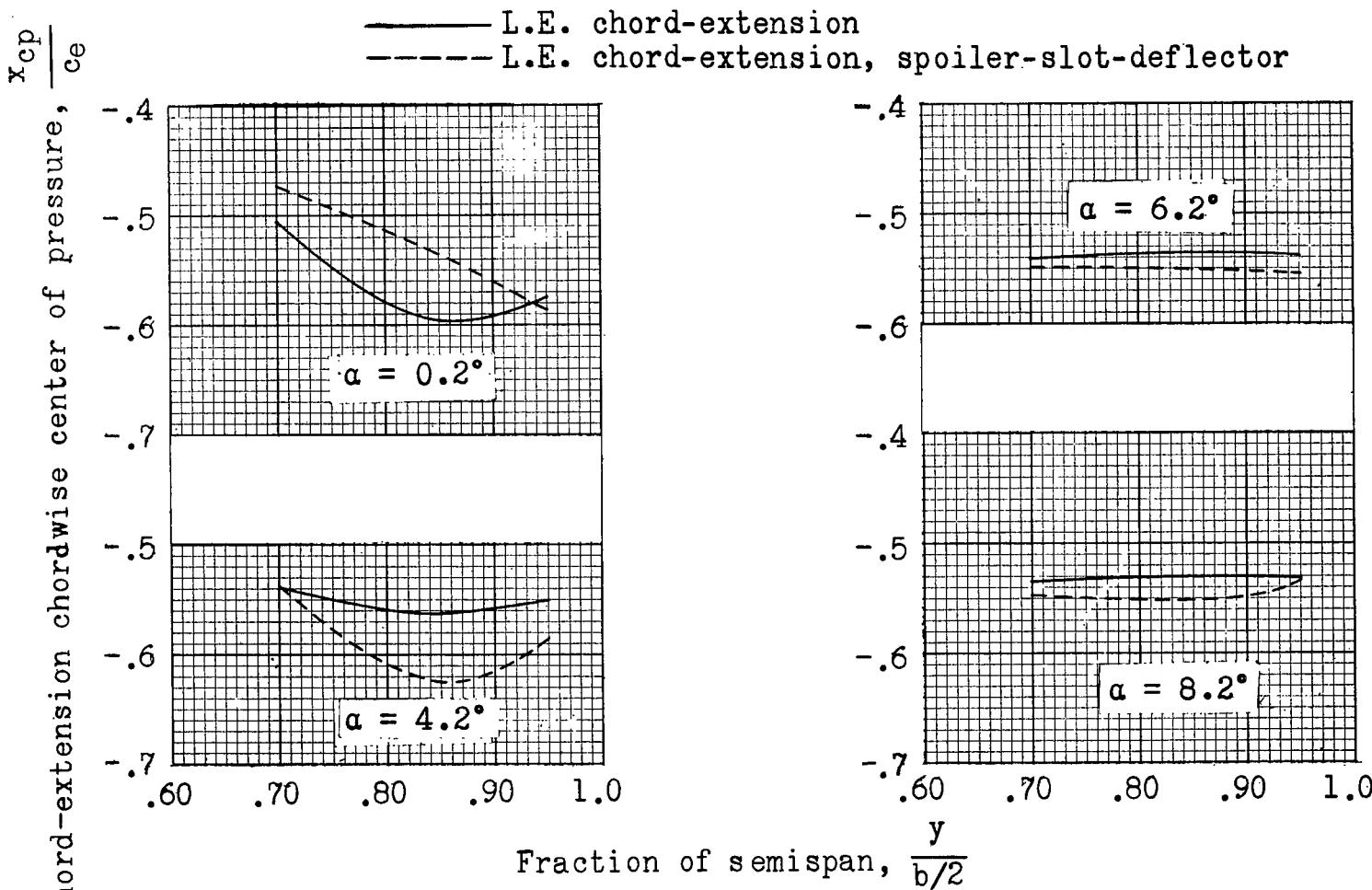
(g) $M = 1.03$.

Figure 11.- Concluded.

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